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Aftermath

The mass shooting at Sandy Hook Elementary School in Newtown, Conn., raises questions at many levels that take a high priority for attention before conclusions about the effect on wireless telecommunications are reached. The grief of families, friends and co-workers whose loved ones and colleagues were killed or injured has an overarching presence. An examination of the roles of government, law enforcement, schools, mental health care, parents and firearm regulation is under way.

Wireless 9-1-1

For decades, the advice to anyone facing a security, fire or medical emergency has been to call 9-1-1. In recent years, the use of wireless devices to call 9-1-1 has outpaced the use of wireline telephones. The increasing use of wireless devices has, in turn, focused more attention on coverage, or the lack of it, when an emergency necessitates a call for help.

Twenty-six miles from Newtown, in Ridgefield, Conn., a town selectman said school board members had concerns about poor cell phone coverage as a weak point in emergency communications in the Ridgebury section of Ridgefield. As reported in the Ridgefield Press, First Selectman Rudy Marconi said, “The terrible tragedy in Newtown only accentuates that we need to bring ourselves into the 21st century and have our general citizenry be able to communicate in times of emergency when conventional lines are down.”

Marconi said that the town has coverage in all other areas, including the center of town where a cell tower has been in place at the Ridgefield Police Department for the past 20 years.

The newspaper reported Marconi saying that other townspeople travel in Ridgebury and have children who attend schools there, so the wireless coverage should matter to them.

Marconi previously supported a plan for the town to purchase property for use mostly as open space, but with a small parcel to be designated for rental as a cell tower site, the newspaper reported. The proposed purchase was defeated at a town meeting last year.

The newspaper went on to report that in November the town approved the purchase after Marconi passed along information that a company told him it expected to reach an agreement with a private landowner to use a different site.

Nearby towers help

Elected officials will continue to face decisions regarding cell tower placements on or near school property. The FCC regulates the safety limits for radio emissions from cell towers and handsets, but it is not unusual for people to voice concerns about the health effects of having cell towers close to schools. Many understand that not only do nearby towers improve coverage, they also allow handsets to transmit with less power, reducing exposure to radio emissions from handsets to a level even less than it would be if the tower were farther away.

Resources are best used when they are expended in ways that prevent emergencies and even tragedies from happening. But ensuring adequate wireless communications to support emergency responses should be a part of every local government’s agenda.

By Don Bishop, Executive Editor dhishop@agl-mag.com

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Towers That Mean Business

The art and science of tower management

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New Year, New Game

What a difference a year makes. About this time last year, LightSquared was looking for a life vest from the FCC, but was tossed a 5-pound rock. In a similar spectrum play, the very lucky (but admittedly hardworking and insightful) Charlie Ergen’s Dish Network won on a similar bet. Dish was granted permission to use satellite spectrum in a terrestrial network to construct the LTE wholesale network, while Phil Falcone bet his fortune on LightSquared, and lost.

The difference? Probably just personalities, and who was reaching too far, and who was willing to compromise. LightSquared wanted to use spectrum that may have interfered with the Global Positioning System. Its opponents were able to raise a number of safety concerns, igniting a real backlash. LightSquared pushed for the grand prize.

Dish has not been granted permission to use its entire spectrum — it has to leave a pretty large chunk in space due to terrestrial interference concerns. But it won. Strangely enough, the local inner-beltway rumor mill says LightSquared may not be dead yet. We’ll keep an ear out for the faint pulse.

So, the LightSquared terrestrial LTE build out that everyone was so excited about a couple of years ago? Get your Sharpie out, cross out “LightSquared,” and write in “Dish.”

Clearwire

But wait! There’s more!

About this time last year, all of our friends (I live in northern Virginia, so they really are many of my friends and neighbors) at Clearwire were waiting for something bad to happen. Those who were left, at least. It turns out that things are now cleared for Sprint to acquire the balance of Clearwire and fully and properly build out a nationwide LTE deployment as part of the same team, completely aligned with Sprint and not some disjointed, hard-to-understand partnership with many heads. Wow, this is going to be fun.

FirstNet

Initial feedback from the FirstNet meetings and proposals is positive. FirstNet is the nationwide, 700-MHz first-responder LTE network. It appears there is good interest from both sides of the table for larger carriers to build out and operate the network. The deal, as I understand it, is that the carriers would get use of the spectrum during periods with no emergencies in exchange for building out the base stations and providing backhaul and other services.

The sticking point that has popped up early is that the FirstNet folks want to perform all of the core functions — the switching. That would put the end-user customer experience in the hands of FirstNet, not Verizon, AT&T or other commercial mobile network operators. As you can imagine, that idea is not going over well.

Also, the desires of the public safety community regarding network resiliency are much different from those of the traditional carriers. We’ll have to wait and see how it shakes out.

Site hardening

In the wake of Hurricane Sandy, where the wireless industry has taken a bit of a public relations hit, we should all be honest about this: Hardening five 800-MHz P25 (public safety land mobile radio standard) sites to provide narrow-band voice and low-speed data service is going to be an order of magnitude easier than hardening the equivalent on the commercial side, which would be 100 700-MHz LTE sites. I want a Mercedes, but I can only afford a scooter.

International market

Strangely enough, we’ve generally ignored the international market. I don’t mean just those of us at AGL, because almost any conversation about the industry excludes anything outside of the United States and the Caribbean. We may need to change that in 2013. U.S. companies have been strong players in the international market for a long time, recently highlighted by SBA’s acquisition of 800 towers in Brazil. U.S. companies are active in almost every market I can think of.

Buyers guide

This issue is our annual buyers guide issue, our most widely distributed issue of the year. The good thing about the buyers guide is that not only is it mailed to every subscriber, it also is distributed at all of the AGL Regional Conferences and all of the major tower trade shows throughout the year. Keep it nearby, because if you’re like me, you will be using it often in 2013.

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<table>
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<tr>
<th>TYPE</th>
<th>CAPACITY Amp-Hours (AH)</th>
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</tbody>
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![Image of Trojan batteries and tower]

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- Ranch Creek Holdings, LLC has sold two towers in Oklahoma to Capital
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Specialty Tower Lighting offers a diverse line of ETL-certified and FAA-approved aviation obstruction lighting products, in stock, competitively-priced and ready to ship. STL has over 25 years’ experience in design, manufacturing, and installation of obstruction lighting products.
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Flash Technology
SPX Flash Technology
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www.flashtechnology.com
Flash Technology’s specialized obstruction lighting products serve the telecommunications, broadcast, wind-energy, airport and utilities markets, as well as specialty applications.
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Stone Technologies
7732 CR 150
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hillary@stonetechnology.com
(719) 539-1222
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(315) 699-4400
www.unimar.com
You need absolute confidence in your tower lighting and in the company that designs, builds and supports it. As the leader in lighting solutions designed specifically to meet your needs, Unimar gives you that confidence. Unimar learns every aspect of your business and regulatory needs and provides unmatched expertise in designing and building your lighting system. Then, the company follows up with the industry’s most knowledgeable customer support. Unimar also leads the industry in innovative technologies that gives its clients cost, maintenance and reliability benefits. Contact Unimar to learn more about tower lighting solutions that give you the ultimate in performance.
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wireless monitoring technology. The combination makes these systems simple to install, enables them to operate reliably under the harshest conditions and minimizes capital costs and cost of ownership. TWR Lighting has 32 years of enlightened technology.

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In addition, RTO and 860 series of marker lights are available from stock in either individual purchases or complete kits.

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knowledge of practical applications. Huber + Suhner offers expertise in radio frequency, fiber optics and low frequency all under one roof, thus providing a unique basis for continual innovation, which is focused on the FttA and PttA needs of customers all over the world. Visit the new webpage www.wireless-infrastructure.com.

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Raycap is the world leader in lightning protection and cable management solutions for Distributed Base Station architectures. Its systems are currently protecting thousands of 3G and 4G sites in the latest networks being built by the largest operators in the world.

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Times Microwave Systems designs and manufactures high-performance coaxial cables, connectors, cable assemblies and surge protection for use in wireless systems. Products include flexible, low-loss 50-ohm LMR coaxial cables, EZ connectors, installation tools and accessories as well as Times-Protect lightning and surge protection devices. Times LMR coaxial cable is considered the industry standard for flexible low-loss coax cable.

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We learn every aspect of your business and regulatory needs, and provide unmatched expertise in designing and building your lighting system. Then we follow up with the industry’s most knowledgeable customer support. Unimar also leads the industry in innovative technologies that give our clients cost, maintenance and reliability benefits.

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Wanho is a key supplier to all major OEMs throughout the world and is dedicated to serving companies that build and maintain wireless systems on a global basis. Wanho components are used extensively in communications systems in all corners of the world, including the Americas, Europe and Asia. See ad on page 49

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Do you need capital, but you don’t want to sell? 17 Mile is your solution. The company will give you the cash you need today, take a short-term assignment of your tower leases, and you will have the choice of repaying the amount at any time or letting the term run out to start receiving rent payments again.

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Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford’s nationwide team of highly respected and reputable experts is committed to providing superior, timely and budget-sensitive customer service. Let Waterford alleviate the burden and frustration of FCC compliance for you. Waterford will beat the competition every time. See ad on page 55

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Tower Numerics
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Waterford Consultants offers a wide array of professional and regulatory consulting services with expertise in AM detuning, RF emissions analysis (EME), intermodulation studies, FAA certification and filing, site audit and third-party inspection, and tower structural and appurtenance mapping. Waterford’s nationwide team of highly respected and reputable experts is committed to providing superior, timely and budget-sensitive customer service. Let Waterford alleviate the burden and frustration of FCC compliance for you. Waterford will beat the competition every time. See ad on page 55
tions, broadcast, wind-energy, airport and utilities markets, as well as specialty applications. See ad on page 11

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(719) 539-1222
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sales@telewave.com
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Telewave designs and manufactures infrastructure equipment for wireless communications, including antenna systems, transmitter combiners, receiver multicouplers, duplexers, and power measurement devices. See ad on inside front cover

Tessco Technologies
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celentanoj@tessco.com
(410) 229-1186
www.tessco.com

TWR Lighting
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TWR’s one-source solution concept for LED lighting and wireless monitoring incorporates the most advanced optical engineering into its lighting systems along with the latest wireless monitoring technology. The combination makes these systems simple to install, enables them to operate reliably under the harshest conditions and minimizes capital costs and cost of ownership. TWR Lighting has 32 years of enlightened technology. See ad on page 67

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www.unimar.com

You need absolute confidence in your tower lighting and in the company that designs, builds and supports it. As the leader in lighting solutions designed specifically to meet your needs, Unimar gives you that confidence. Unimar learns every aspect of your business and regulatory needs and provides unmatched expertise in designing and building your lighting system. Then, the company follows up with the industry’s most knowledgeable customer support. Unimar also leads the industry in innovative technologies that gives its clients cost, maintenance and reliability benefits. Contact Unimar to learn more about tower lighting solutions that give you the ultimate in performance. 
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Flash Technology’s specialized obstruction lighting products serve the telecommunications, broadcast, wind-energy, airport and utilities markets, as well as specialty applications.
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TWR Lighting
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(713) 973-6905
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TWR’s one-source solution concept for LED lighting and wireless monitoring incorporates the most advanced optical engineering into its lighting systems along with the latest wireless monitoring technology. The combination makes these systems simple to install, enables them to operate reliably under the harshest conditions and minimizes capital costs and cost of ownership. TWR Lighting has 32 years of enlightened technology. 
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Stone Technologies
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Salida, CO 81201
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(719) 539-1222
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Sun Power Technologies manufactures wall-mounted, split and custom DC-powered air conditioning systems and controllers specifically designed to meet the needs of the telecommunications industry. All products are designed to work effectively on or off grid and are optimized.

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mperry@sunwize.com
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Synergy Concepts
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Synergy Concepts is working with businesses and communities to develop renewable energy systems that produce affordable and efficient renewable energy as everyone moves toward a greener way of living.

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www.tessco.com

BTM Engineering
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Raycap is the world leader in lightning protection and cable management solutions for distributed base station architectures. Its systems are currently protecting thousands of 3G and 4G sites in the latest networks being built by the largest operators in the world.

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Valmont Site Pro 1 is the industry’s leading manufacturer and distributor of high-quality wireless site components. The company’s broad product offering is available for same-day shipping from any one of its six distribution centers located in Atlanta, Los Angeles, New York, Dallas, Plymouth, Ind., and Salem, Ore. Products include coax cable accessories, grounding components, ice bridges, antenna mounts and platforms, guy material, fiber components and safety products. Check out Valmont Site Pro 1’s user-friendly website at www.sitepro1.com.

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The FieldSense personal RF monitor is a cost-effective solution for mobile network operators and professionals searching for a way to ensure safety for everyone working in the vicinity of base station antennas. Its compact, durable design is intended for everyday use.

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For 22 years, Bell Tower has been designing, manufacturing and installing towers throughout the United States, from 100-foot self-supporting towers to 2000-foot broadcast towers. The company’s experienced staff offers customers the finest safety record in the industry and fair pricing on challenging projects.

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tower lights — tower manufacturers

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Slatercom-WCD is a master-integrating Dialight tower lighting distributor. The company keeps extensive stock of the new D464 red beacon and D1RW-008 dual red-and-white beacon. In addition, RTO and 860 series of marker lights are available from stock in either individual purchases or complete kits.  

*See ad on page 89*

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*See ad on page 61*

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**Environmental Integration**

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*See ad on page 11*

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(978) 544-1900  
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Environmental Integration designs and manufactures concealment products for monopole, rooftop and steeple applications. Branch canopy systems, including refurbish projects, are engineered for durability and longevity. Environmental Integration specializes in realistic reproductions for concealment.

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*See ad on page 47*

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Slatercom-WCD is a master-integrating Dialight tower lighting distributor. The company keeps extensive stock of the new D464 red beacon and D1RW-008 dual red-and-white beacon. In addition, RTO and 860 series of marker lights are available from stock in either individual purchases or complete kits. See ad on page 89

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American Tower Company
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www.amertowers.com

Antenna Products
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