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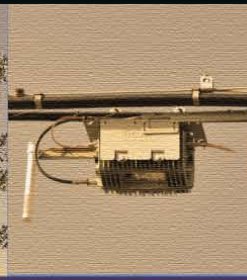
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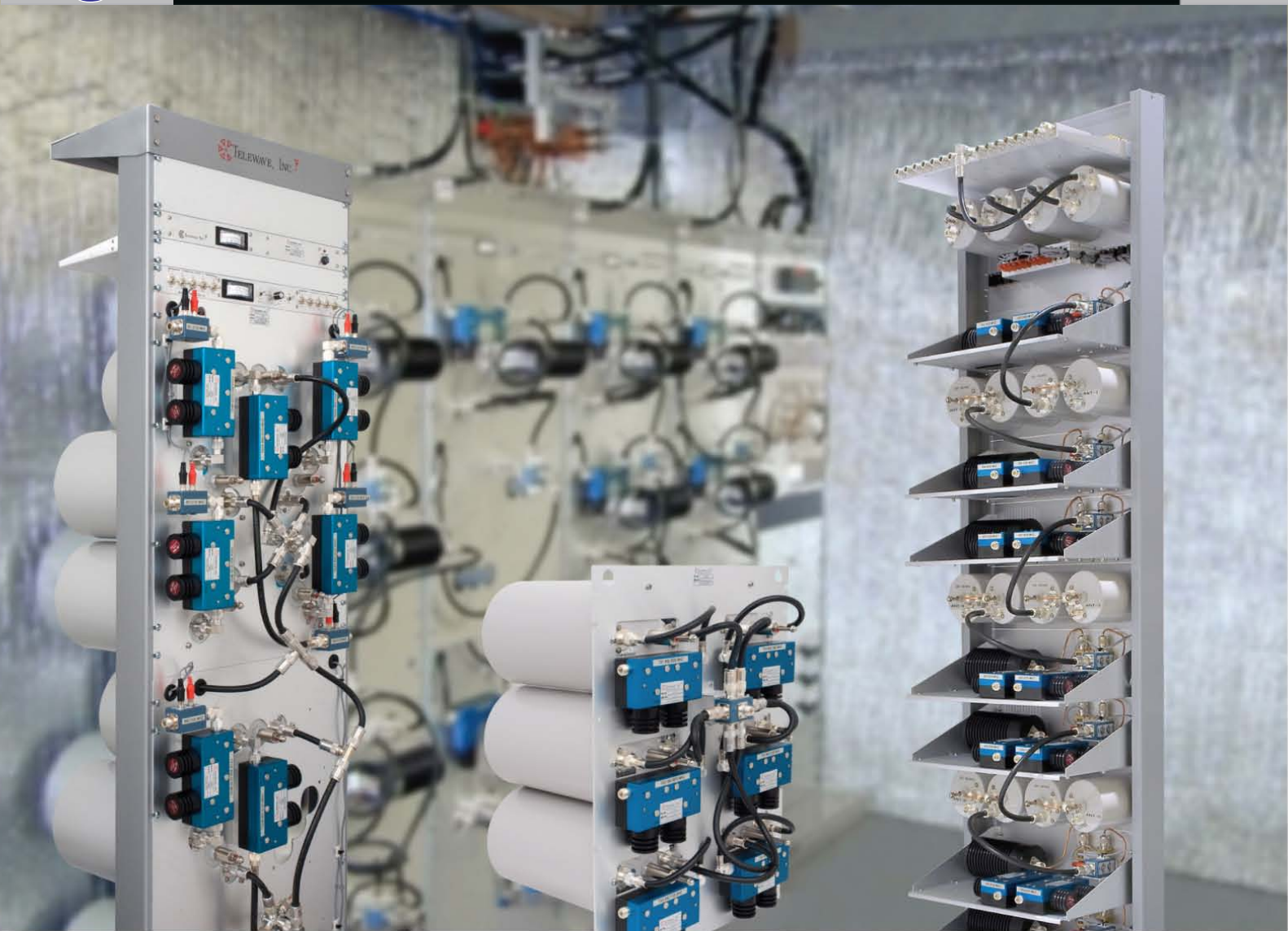
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about the center spread



Charlottesville, Va.

Located atop Carter Mountain and near Thomas Jefferson's Monticello, the *AGL Tower of the Month* was erected in 2004 by prime contractor Motorola. The public safety tower is part of a four-site, multijurisdictional, simulcast, trunked 800-MHz system that covers 740 square miles. It is part of a three-site, simulcast, UHF paging system for fire and EMS communications. The site also provides low-band VHF statewide conventional interoperability. It has a high-band VHF, UHF and 800-MHz national calling channel and tactical channel for mutual aid and interoperability in the public safety frequency bands.

Photography by Gabe Elias

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editorial comment

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

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

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. ■



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publisher's note

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. cleared for Spint 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.

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.

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.

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.

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.

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.

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

Wishing everyone a successful and safe 2013. ■

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.

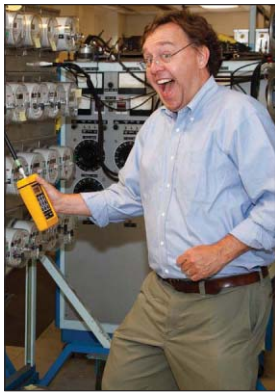
Dish has not been granted permission to use its entire spectrum — it has to leave a pretty large chunk in space due to terrestrial interference concerns. But it won. Strangely enough, the local inner-beltway rumor mill says LightSquared may not be dead yet. We'll keep an ear out for the faint pulse.

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."

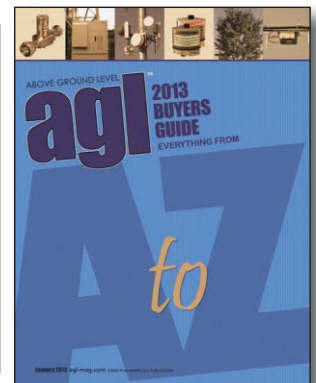
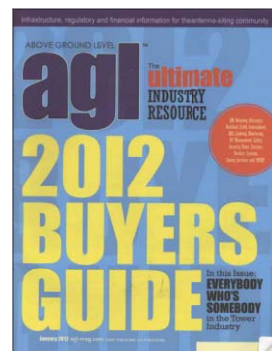
Clearwire

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

By Rich Biby, Publisher
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brackets/mounts

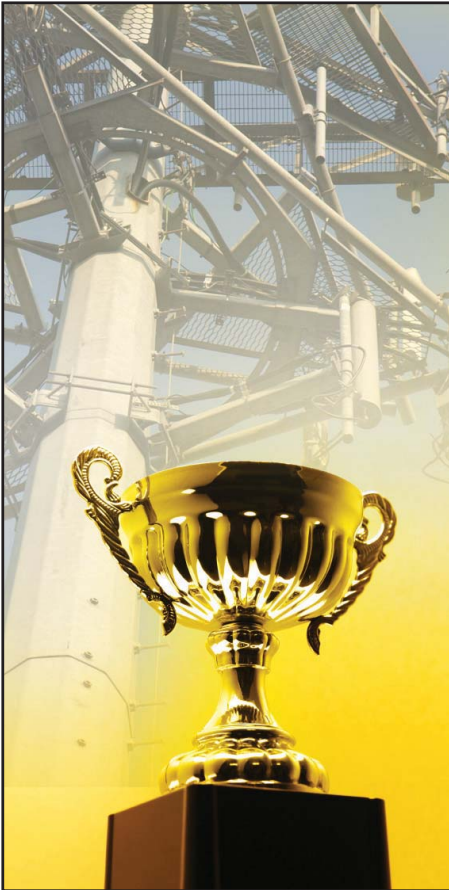


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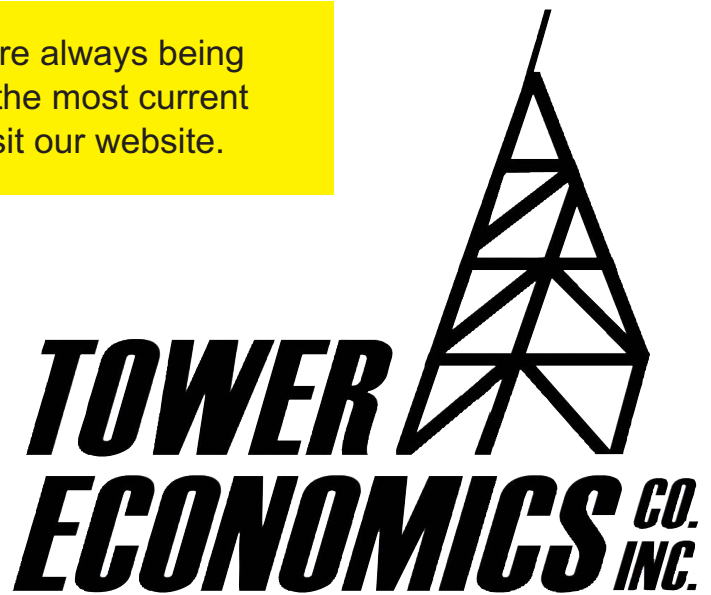
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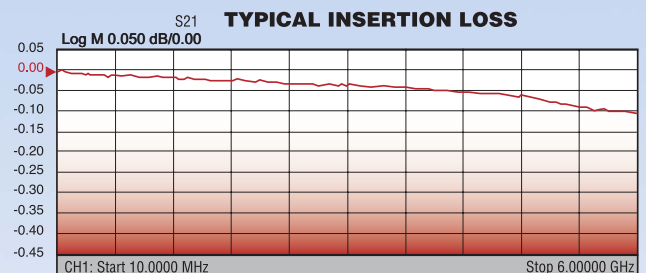
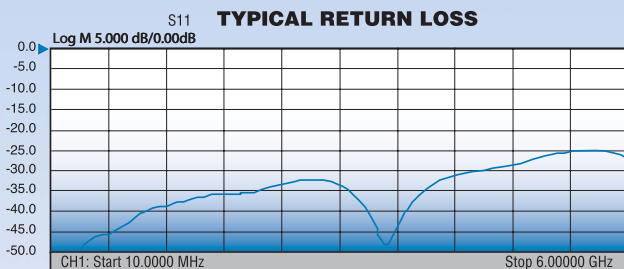
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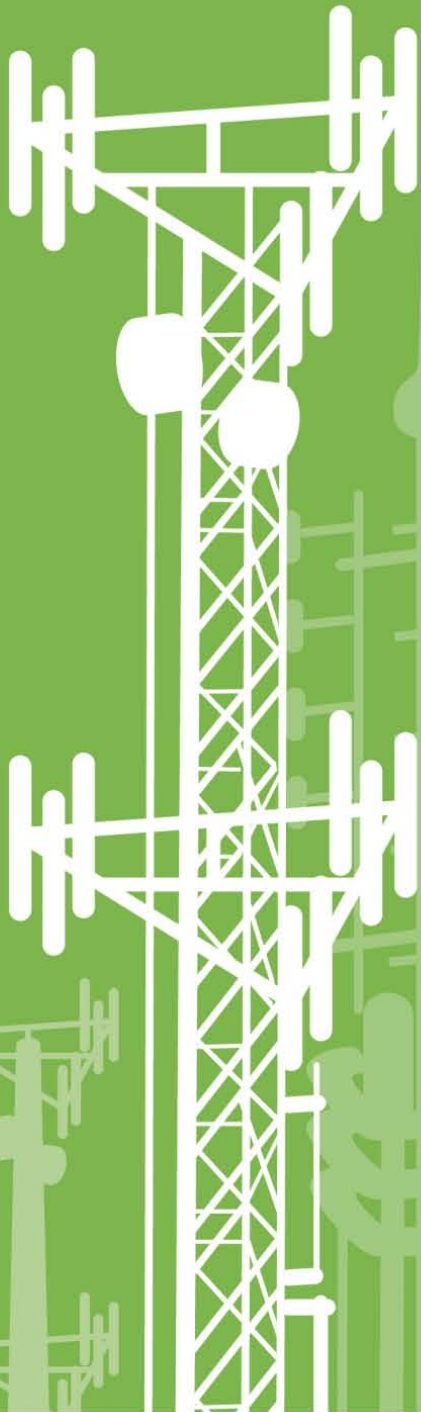


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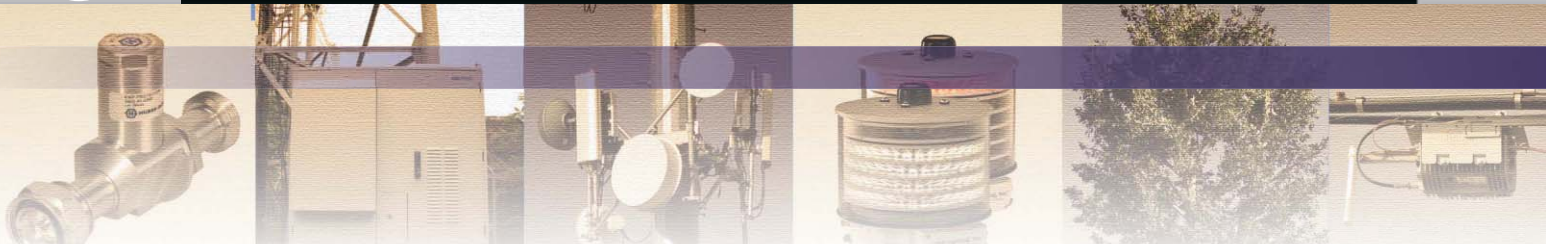
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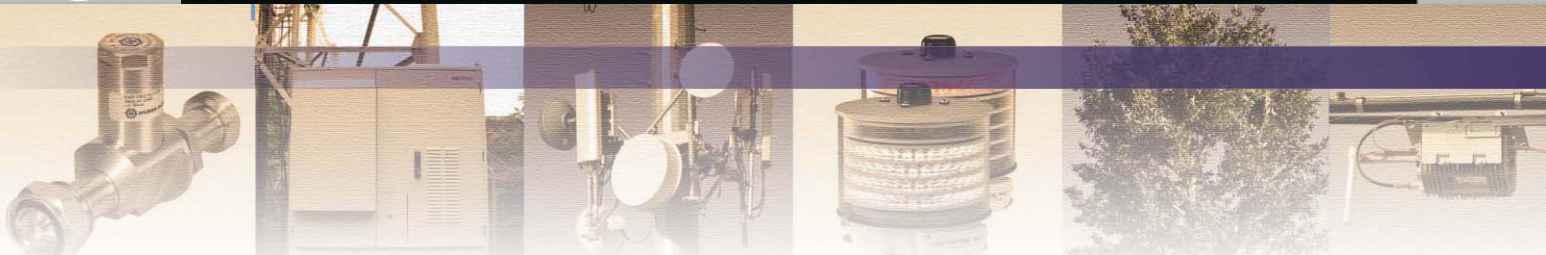
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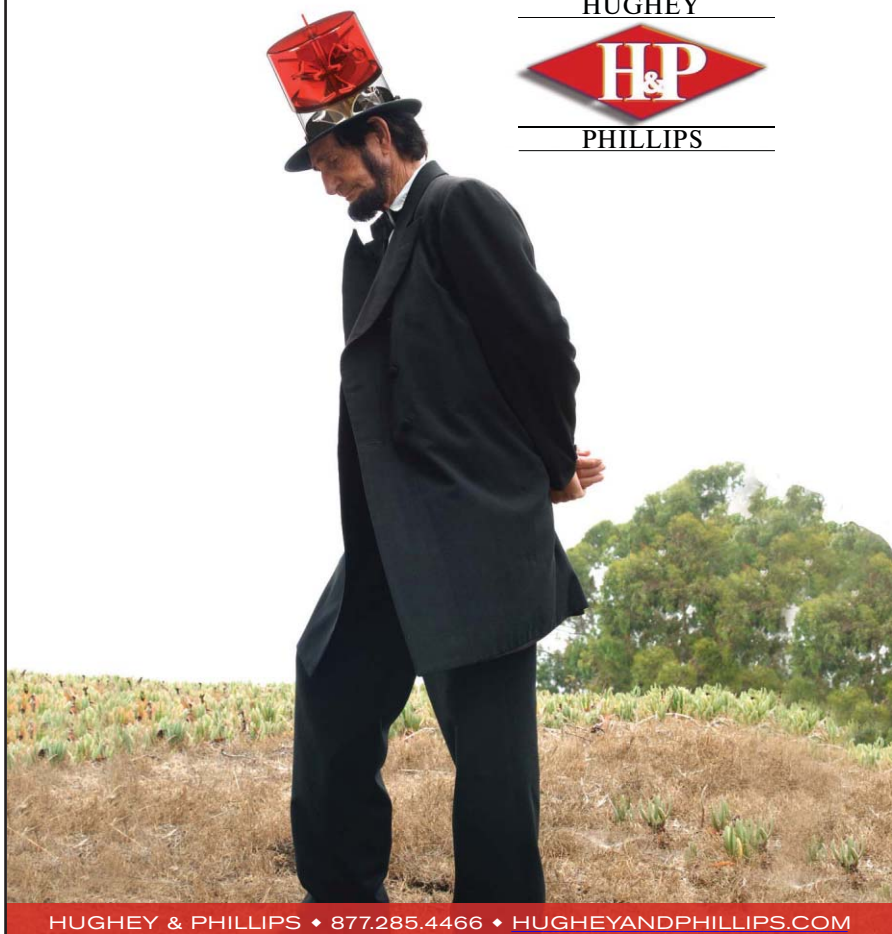
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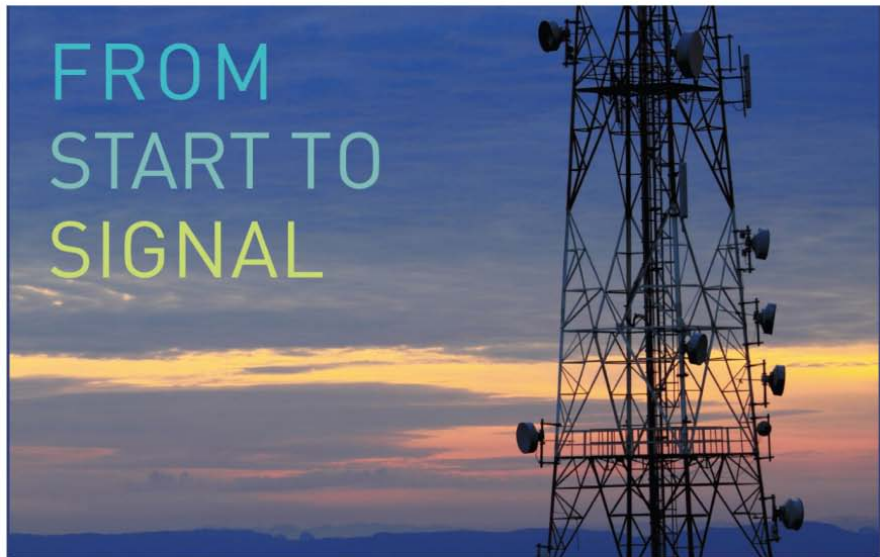
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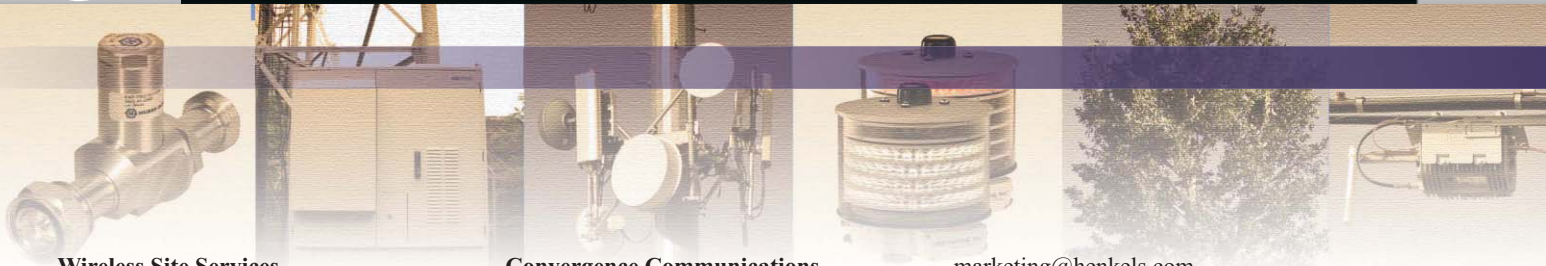


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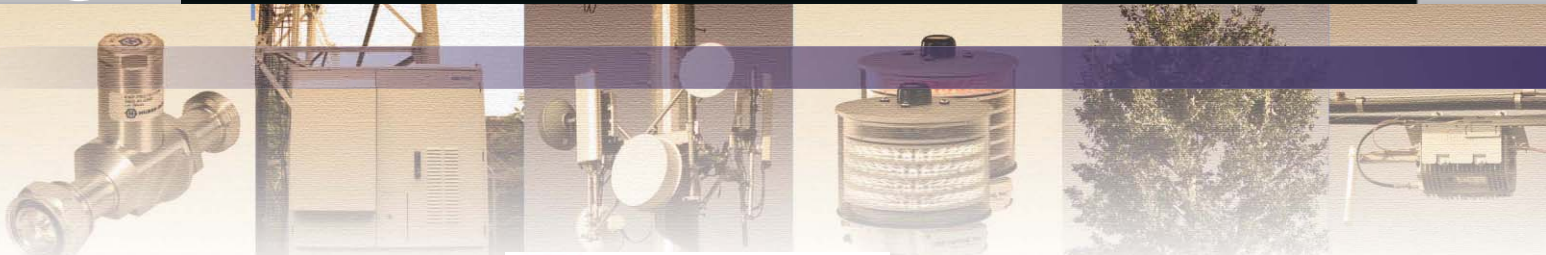
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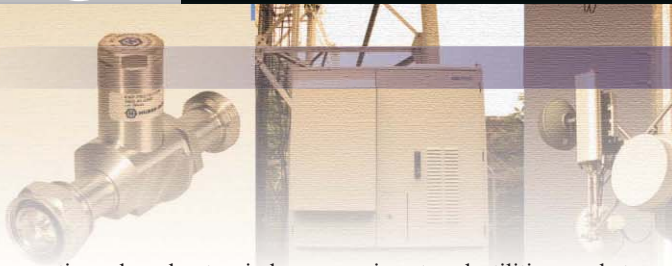
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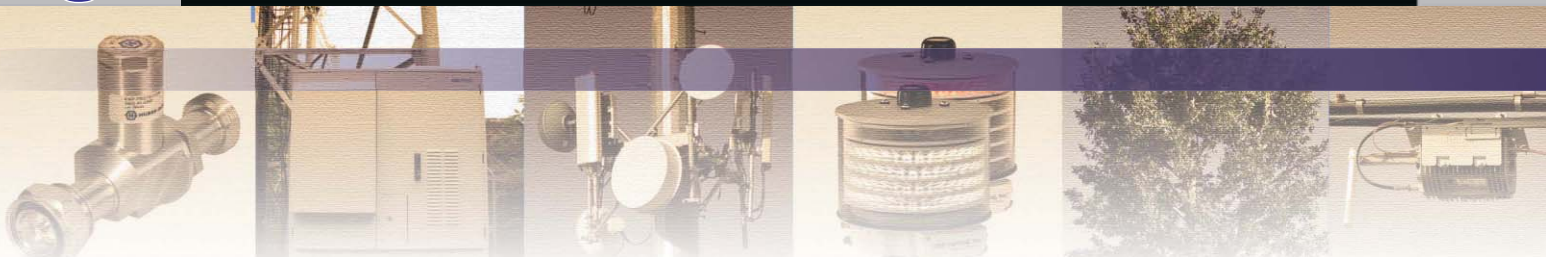
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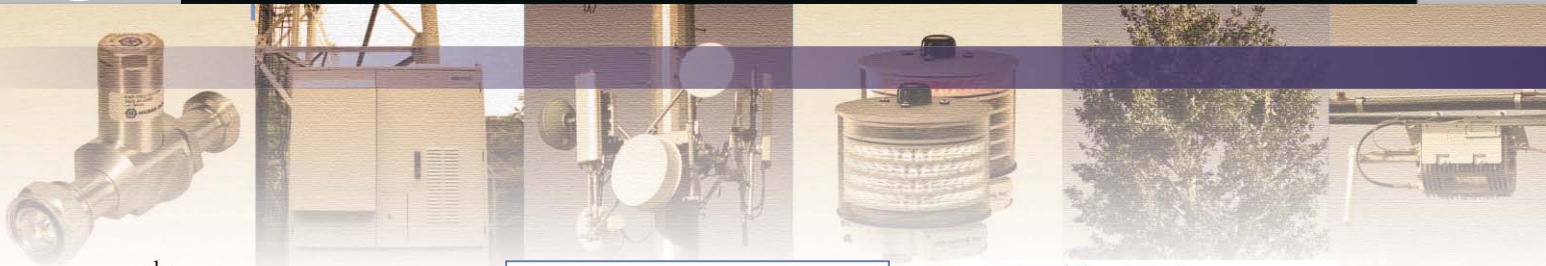
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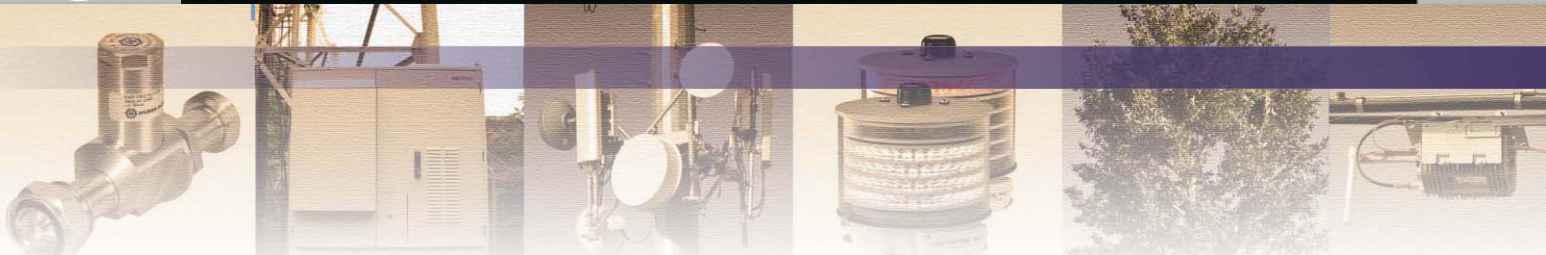
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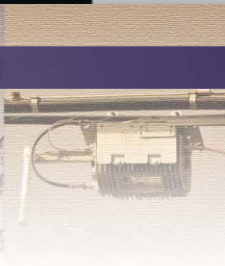
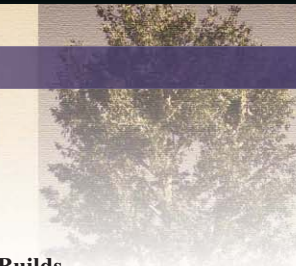
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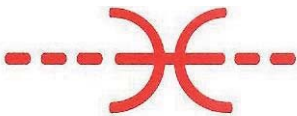


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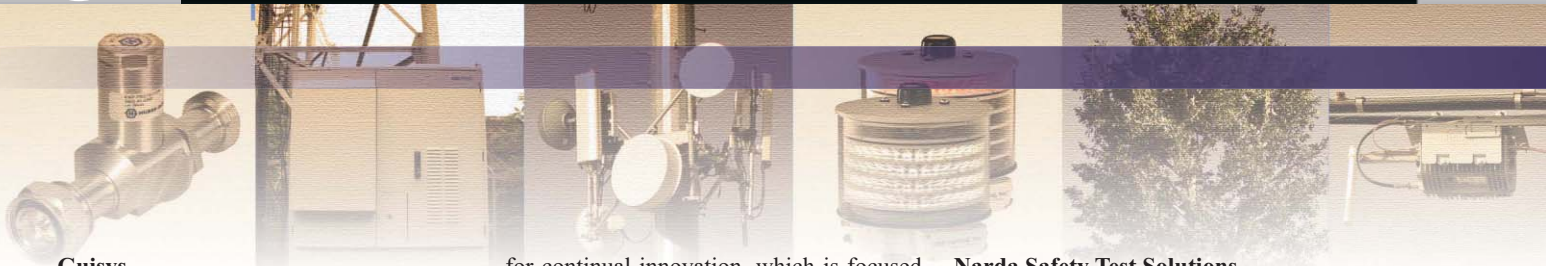
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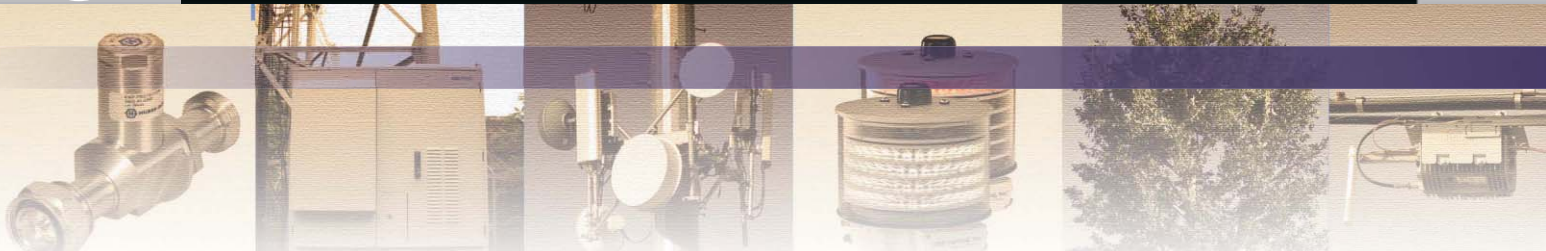


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FWT is a manufacturer of custom steel structures and other products for utility transmission, distribution, substations, and communication purposes. Since 1959, the FWT name has symbolized quality and leadership through innovation within the custom steel fabrication industry. The company's extensive manufacturing facilities allow FWT to meet customer needs efficiently and economically
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www.itl-llc.com
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www.nelloinc.com

Peak Industries
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Spangle, WA 99031
contact@peakindustriesinc.com
(509) 443-0479
www.peakindustriesinc.com



Sabre Towers and Poles
2101 Murray St.
Sioux City, IA 51111
mpeoghlan@sabreindustries.com
(800) 369-6690
www.sabretowersandpoles.com
Sabre Towers and Poles designs and manufactures guyed and self-supporting towers, monopoles and concealment structures. The company also offers complete turnkey tower and monopole modifications including structural analysis, modification design, fabrication and installation.
See ad on page 17

Stainless
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North Wales, PA 19454
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(215) 631-1323
www.stainlessllc.com



Valmont Structures
28800 Ida St., P.O. Box 358
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sean.gallagher@valmont.com
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www.valmont-towers.com
Valmont is a leading manufacturer of monopoles and towers and an expert supplier of tower analysis services. The company's offerings include disguised wireless structures and portable bases. Building on a strong heritage of proven results, Valmont's superb brands include PiRod and Micro-flect products. Valmont manufactures these

products in Indiana, Nebraska, Oregon and Texas, and all plants are AISC-certified. Whatever your wireless tower application, Valmont believes its engineers and manufacturing professionals can offer a solution that meets or exceeds your needs. Contact Valmont today to learn more.
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Allstate Tower
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American Tower Company
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(419) 347-1185
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Valmont Site Pro1 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 Sa-

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Valmont is a leading manufacturer of monopoles and towers and an expert supplier of tower analysis services. The company's offerings include disguised wireless structures and portable bases. Building on a strong heritage of proven results, Valmont's superb brands include PiRod and Micro-flect products. Valmont manufactures these products in Indiana, Nebraska, Oregon and Texas, and all plants are AISC-certified. Whatever your wireless tower application, Valmont believes its engineers and manufacturing professionals can offer a solution that meets or exceeds your needs. Contact Valmont today to learn more.
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Valmont Site Pro1 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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AT&T Towers is the fourth-largest owned tower portfolio in the United States with over 14,600 locations in 50 states, the District of Columbia and Puerto Rico. The AT&T Towers Portfolio consists of high-quality tower structures of all types, often with preferred elevations and excess tower capacity. The AT&T Towers Portfolio also offers distributed antenna system (DAS) network alternatives to help meet your network needs. The AT&T Towers team consists of highly experienced wireless site-leasing professionals who understand the importance of speed and service to meet customer expectations. Additional information on the AT&T Towers group and its portfolio of towers, rooftops and DAS networks can be found at www.att.com/towers.
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ComSites West develops, owns and operates wireless communications sites in Northern California and Nevada, including tower and rooftop communications facilities. The company also develops towers jointly with landowners and acquires towers through outright purchases.

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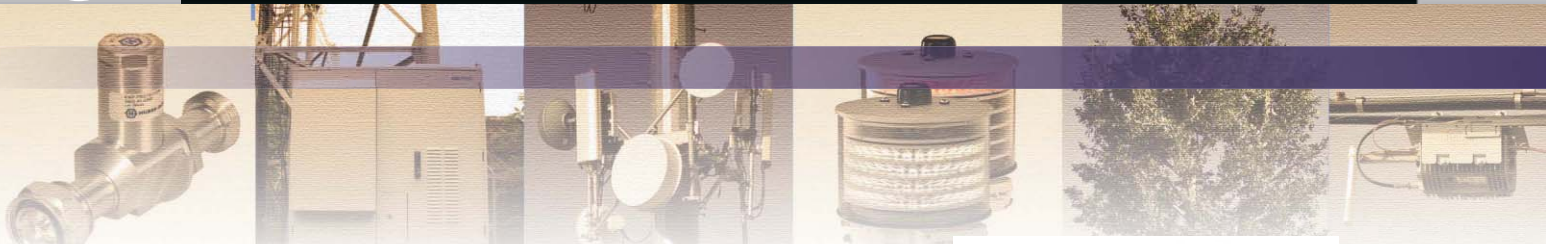
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Utility Service Communications

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www.utilityservice.com

Utility Service Communications specializes in site marketing and management for wireless facilities on water tank sites. The company provides tech services including tank mapping, structural analysis, and architectural and engineering drawings.

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Vasu Communications

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Wireless Edge is a premier provider of network implementation services and strategic tower sites. Nationwide services include tower development, site management, development of cell sites and satellite terrestrial repeaters and special projects. Wireless Edge specializes in development and permitting of antenna sites on landmark and historic properties.

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towers/concealment

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(805) 934-4535
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Engineered Endeavors is a recognized leader in the design and supply of wireless antenna structures including monopoles, disguised structures, pine trees, flagpoles and all types of rooftop concealment. EEI offers in-house engineering services registered in all 50 states.

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Environmental Integration

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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.

Fullerton Engineering Consultants

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www.larsoncamo.com

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Peabody Concealment

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Peabody Concealment is the leader in pre-fabricated cell site RFTC concealment enclosure design, engineering and fabrication. Large prefab sections are built to match architecture to help pass zoning and siting regulations for easy permit approval, and the sections install in hours, saving you thousands of dollars in costs.



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Porter offers custom fabrication and installation of RF-transparent antenna enclosures and FRP structures. The company matches any texture or finish and will ship anywhere in North America.

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SOLAR COMMUNICATIONS INTERNATIONAL

Solar Communications
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www.rfrtransparent.com
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Valmont is a leading manufacturer of monopoles and towers and an expert supplier of tower analysis services. The company's offerings include disguised wireless structures and portable bases. Building on a strong heritage of proven results, Valmont's superb brands include PiRod and Micro-flect products. Valmont manufactures these products in Indiana, Nebraska, Oregon and Texas, and all plants are AISC-certified. Whatever your wireless tower application, Valmont believes its engineers and manufacturing professionals can offer a solution that meets or exceeds your needs. Contact Valmont today to learn more.
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Peak Industries
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(509) 443-0479
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Pioneer Energy Products (Pepto)
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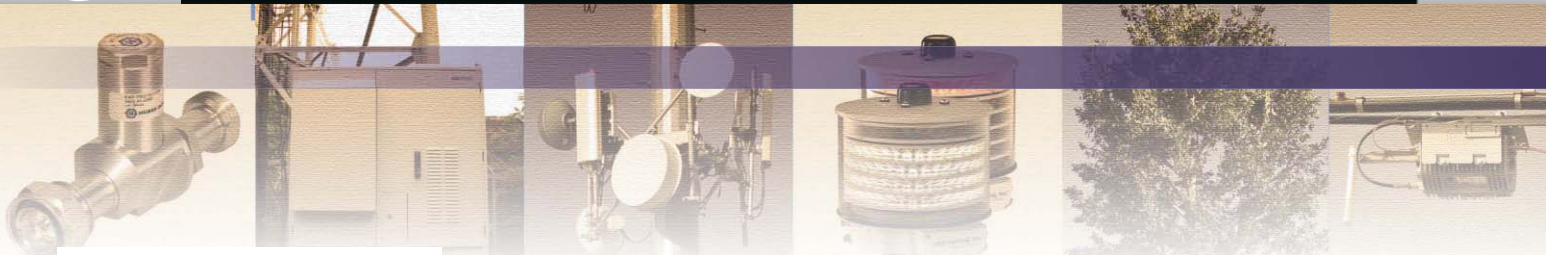
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Stainless
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(215) 631-1323
www.stainlessllc.com
For more than 65 years, Stainless has designed, engineered, fabricated and installed towers of any height up to 2,000 feet. The company offers tower analysis, modifications, inspections, maintenance and repair plus 24-hour emergency service with its own experienced and safety-trained crews.

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



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sean.gallagher@valmont.com
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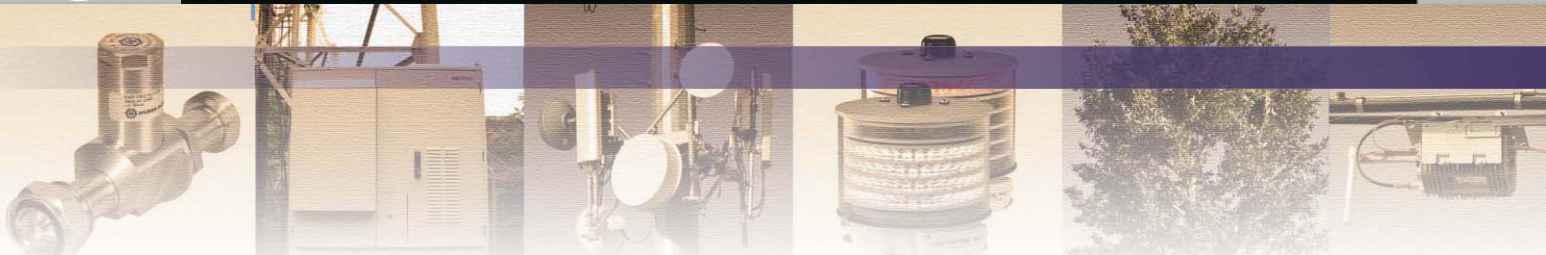
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