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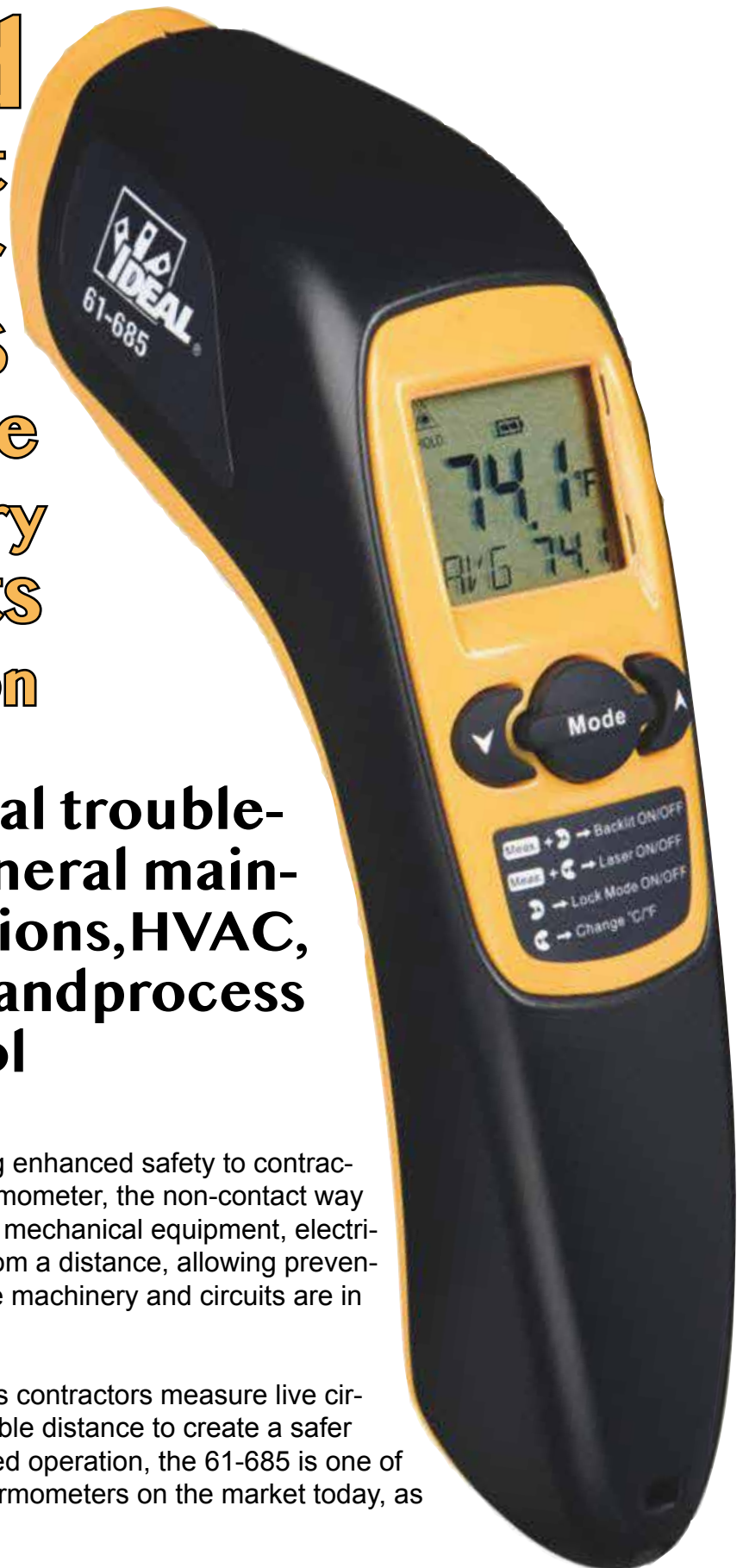
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Along with electrical troubleshooting and general maintenance applications, the 61-685 is an excellent solution in the HVAC, health and safety, and process control fields. To add to its versatility and value, a built-in socket supports Type K thermocouple probes allowing obstructed areas to be reached.

The IR thermometer further broadens IDEAL's full line of testing solutions to meet the diversified needs of electricians, maintenance engineers and data communications technicians with products suited to the specific requirements of each application.

For more information, contact IDEAL INDUSTRIES, INC., Becker Place, Sycamore, Illinois 60178. Or phone 1-800-947-3614, Fax: 1-800-533-4483. On the web, www.idealindustries.com.



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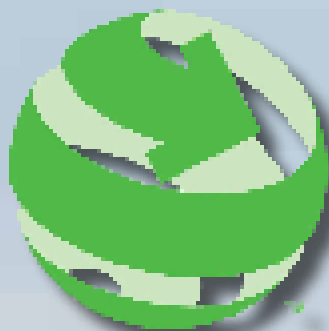
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3-GIS



3-GIS Network Solutions Announces the Incident Management Extension

While municipalities and utility companies across large areas of the Midwestern and Northeastern United States work to restore utility service to their customers, 3-GIS, a global leading GIS software solutions company, highlighted its release of a powerful tool for the utility industry that could help dramatically, and efficiently, speed up that restoration of service.

3-GIS, headquartered in Decatur, Alabama, offers an incident management component with its 3-GIS Network Solutions. 3-GIS, headquartered in Decatur, Alabama, announced the Incident Management extension for its 3-GIS Network Solutions products. Those solutions continue to see real world application in incident management through a variety of emergency environments.

"These are large-scale, widespread utility outages that are impacting millions of people across entire regions," said Tom Counts, 3-GIS president. "When you're facing these situations, you need tools that help rapidly collect data and help these utilities restore power quickly and efficiently."

Added Counts, "Incident Management management with our 3-GIS Network Solutions does that."

In April 2011, after dozens of tornadic

storms left widespread devastation across the southern U.S., 3-GIS Network Solutions were used to assist the Jefferson County (Alabama) Emergency Management Agency (JCEMA) in their incident management efforts.

"3-GIS has been a good friend of JCEMA for many years. When the storm hit we knew we could count on them to give the effort we needed to expedite data into our GIS," said Allen Kniphfer, Jefferson County's EMA Chief and Coordinator.

Designed to serve an electric utility's Incident Management and Damage Assessment business needs, 3-GIS Network Solutions provide the perfect toolset to rapidly adapt and fulfill all of the data collection and office side analysis required when a utility is facing a critical outage situation.

Leveraging a utility's existing GIS repository, the 3-GIS Network Solutions Incident Management extension provides both a web-based office management tool and field data collection tool to provide a simple, full-featured Incident Management solution.

On the office side, 3-GIS Web provides a web browser-based data viewing tool with full analysis and reporting capabilities. Through 3-GIS Web, an office user can both view GIS asset information, overlay outage information from a SCADA,

OMS or DMS solution, then assign work to a particular crew to assess the exact damage locations.

In the field, a crew may use a variety of tablets to download work assignments and perform an asset of damage along a feeder. 3-GIS Mobile, with full integration with GPS, is equipped to allow a crew to efficiently capture damage locations, materials required, and photos of the impacted area. The user is able to mark assigned work as completed to assist in progress tracking.

Also, as work is performed, the location information may be updated accordingly. When this work is saved back to the central repository, office workers can then perform both spatial and tabular analysis to optimally allocate resources to address the problem areas. Management reports may be generated to provide the latest information, effectively communicate storm damage status and progress throughout the company.

3-GIS Network Solutions leverage the latest in technology, a utility's investment in GIS data, and decades of industry experience to provide tools designed to meet a utility's pressing needs. In addition, 3-GIS Network Solutions have been designed to be simple to install, configure, and administer. Many utilities have been able to get 3-GIS Network Solutions deployed within a matter of days, with minimal training and IT support.

"Many organizations can utilize data from our system to assist in assessing, recovering, and permitting for the rebuild of their

communities." Says Tom Counts.....added Counts. "3-GIS helps our clients do that in a fast, efficient and reliable way."

For more information on 3-GIS Network Solutions for incident management, visit the company's website at www.3-GIS.com.



The advertisement features a collage of industrial equipment against a background of a power substation. The equipment includes:

- Vault Blowers and Accessories:** A black rectangular unit with a circular fan grille.
- Transformer Cooling Fans and Accessories:** A large, circular, black industrial fan.
- Confined Space Blowers and Accessories:** A yellow portable blower and a coiled yellow flexible duct.
- Other equipment:** A black circular fan, a green metal frame with a fan, and various electrical components.

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Cassidian Communications

to Offer TETRA Radio Solutions in North America

A global leader in TETRA deployments, Cassidian Communications is bringing its advanced voice and data radio communications solutions to corporate customers in the U.S. and Canada, specifically the utility, transportation and industrial markets

Cassidian Communications, an EADS North America company, today announced its TETRA radio solutions are available to corporate customers in the U.S. and Canada—initially within utility, transportation and industrial markets. TETRA solutions will improve operational efficiency for companies in need of ad-

Cassidian Communications' TETRA radio solutions deliver robust, secure communications, improving operational efficiency and providing an overall reduced cost of ownership

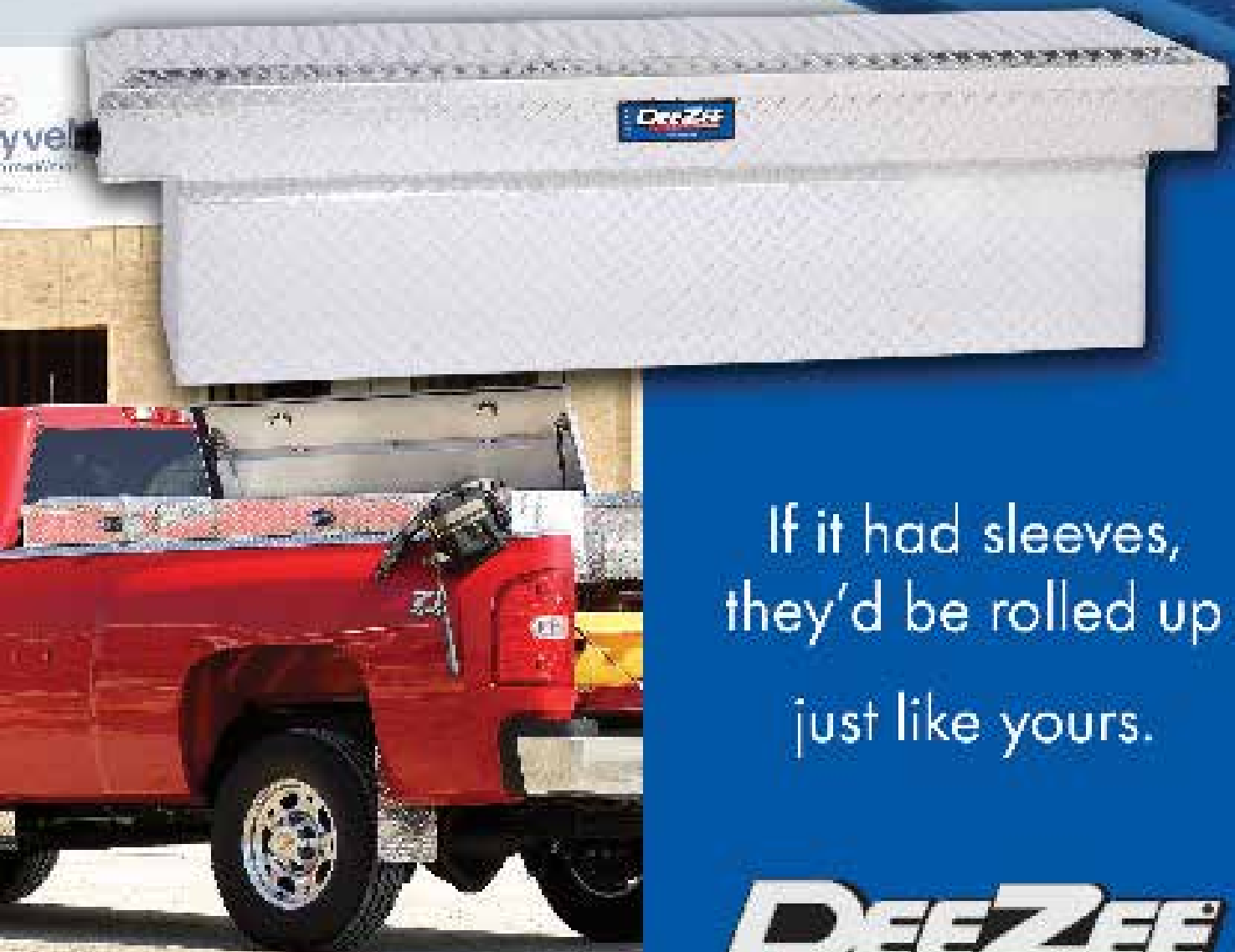
vanced and secure voice and data communications.

Already a leading provider of P25 radio networks for public safety, Cassidian Communications continues its commitment to non-proprietary solutions with the introduction of its open, stan-



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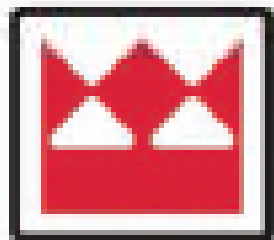
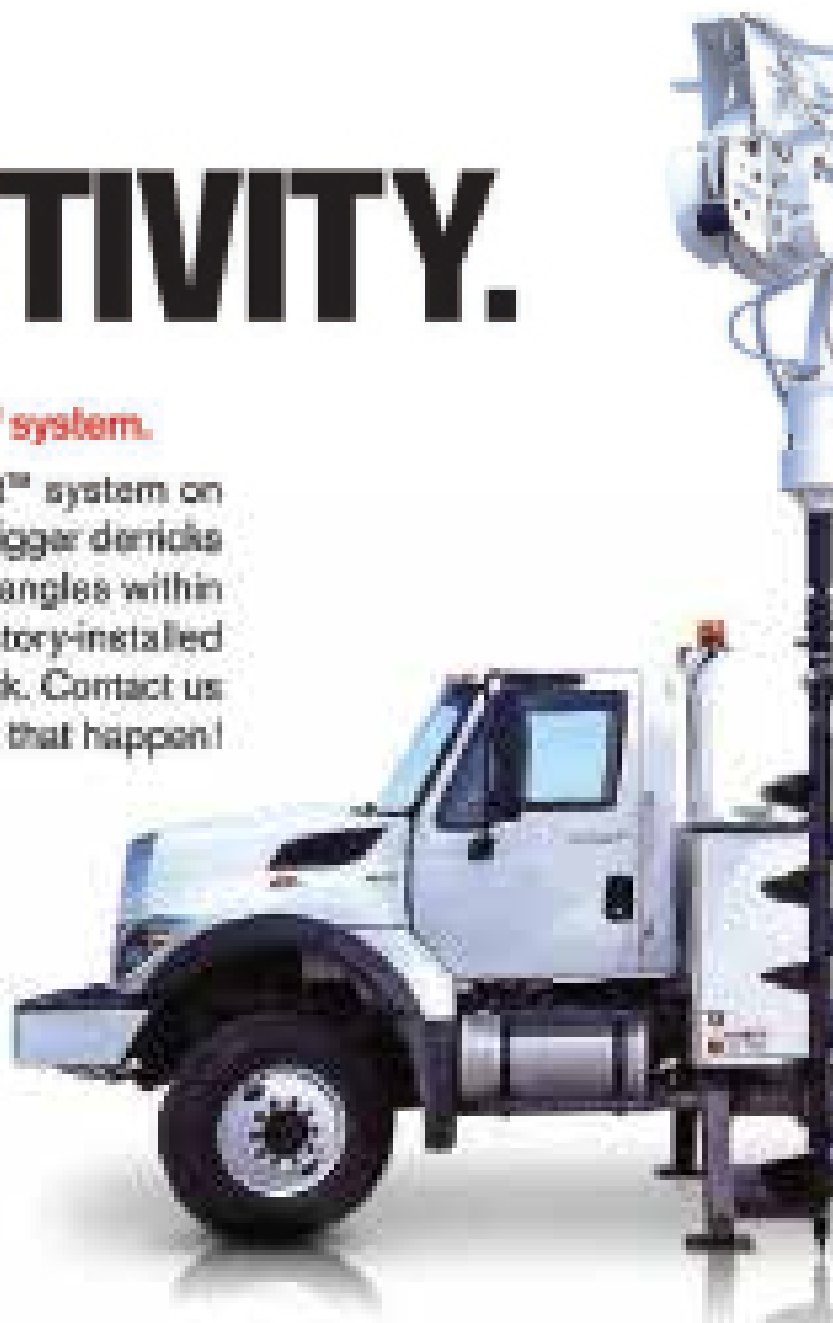
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dards-compliant TETRA network infrastructure and radios for corporate customers in the U.S. and Canada.

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"This is a monumental day for companies that demand reliable communication systems," said Bob Freinberg, CEO, Cassidian Communications. "Customers worldwide depend on our TETRA solu-

tions for flawless communication under the most arduous conditions. We are confident that our seamless TETRA solutions will deliver the same reliable and secure voice and data communications to utility, transportation and industrial customers in North America as well."

The TETRA solutions now offered to companies in North America by Cassidian Communications have been deployed in more than 130 networks around the world. For example, BOSNet, a TETRA network deployment in Germany, will be the largest digital network in the world, with more than 3,000 sites and more than a million users on a single, nationwide network.

"Having deployed numerous nationwide land mobile radio networks, we have the experience and expertise to undertake any project regardless of size or complexity," said Francois Begaud, chief

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operating officer of Cassidian Communications' LMR/LTE business unit. "With its ability to seamlessly combine voice and data communications, our TETRA solutions provide users with the flexibility to use whichever medium is most appropriate to the situation and the information they need to share."

Cassidian Communications serves clients ranging from public safety operations to Federal agencies to Fortune 1000 corporations. The company has more than 40 years of experience deploying mission-critical communications solutions for 9-1-1 call taking and emergency notification, and first-responder digital trunked radio networks like TETRA overseas and P25 in North America.



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The Evolution of Safety Signs

By Tom Smith

Getting a third-party perspective can help you eradicate visual clutter, create consistency within your facility, and reduce overall costs.

Safety signs are one of the oldest types of safety equipment. Since the turn of the 20th century, they've played a pivotal role in preventing workplace injuries. Today, they remain an essential part of every industrial facility and save thousands of lives each year.

But the safety signs you see in your facility today are quite different from the ones that were hanging on the walls of industrial workplaces several decades ago. It has taken many years and numerous standardizations to get to where we are today, where safety signs can be universally understood by all individuals, regardless of their culture or language. Let's take a look back at how safety signs were introduced into facilities and examine the standards that pioneered the way to the visual communication systems we have today.

The Early Days of Safety Signage

In 1914, the Worker's Compensation Bureau published a pamphlet titled "Signs and Slogans," which advocated the use of DANGER safety signs in the languages of the workers. The pamphlet stated that safety signs were a necessity in the workplace, yet it did not provide any standard format or guidelines. The colors, text, and design of each sign were left up to the company.

It wasn't until 1941 that safety signage standards were introduced, in part due to the growing industrial revolution and the rise of accident rates. The American Standards Association (which would later become the American National Standards Institute, or ANSI) published ASA Z35.1 Specification for Industrial Accident Prevention Signs. This standard outlined specifications for safety sign design and introduced standard formats for DAN-

GER signs, CAUTION signs, NOTICE signs, and EXIT signs, among others.

ASA Z35.1 was the standard that governed the industry for nearly 50 years. In fact, OSHA adopted it as the basis of its 29 CFR 1910 regulatory safety sign formats that were published in 1971, and those standards still remain in effect today.

ANSI Recommends Further Standardization Throughout the 1970s and 1980s, U.S. courts set a legal framework for liability involving the "duty to warn" and "inadequate warnings." Global trade skyrocketed, and the number of immigrant workers was steadily increasing. All of these changes



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A hand is shown from the wrist up, with the index finger pointing upwards towards a blue 'Like' button. The button is rectangular with rounded corners and a white border. The word 'Like' is written in a bold, blue, sans-serif font. Surrounding the button and hand are several white, rounded rectangular shapes that look like speech bubbles or floating windows, some of which are slightly transparent. The background is a solid, light gray.

Like

affected safety signage, and soon graphics and symbols were being added to safety signs and product labels to break through language and literacy barriers among workers.

In response to these developments, the ANSI committee came back together to review its existing standard and revise it where necessary. The committee members discovered myriad inconsistencies among the labels and safety signs in use; colors, text, and graphics often varied from facility to facility. They deemed further standardization would be advisable for the industry, and the result was the first edition of the ANSI Z535 series in 1992.

In the years that followed, the ANSI Z535 committee continued to revisit the standards (typically every five to six years) as technology progressed. It developed new and improved methods for visually communicating safety information, including standardization of color, symbols, labels, tags, and text. By 2002, it had published one recommended format for facility safety signs, product safety labels, and temporary safety tags.

Signs of Globalization

While OSHA's safety sign standards remain the only enforceable regulations, ANSI Z535 is a voluntary consensus standard with increasing value in today's era of rapid globalization. In 2007, for example, ANSI published its Z535.4 edition, which announced harmonization with the International Organization for Standardization's (ISO) 3864-2 label formats. This change signaled a historic step forward in international safety collaboration and initiated a new level of global best practice for safety signs, labels, colors, and symbols.

As these standards are slowly adopted on a global scale, the industry will inherit a universal way to convey safety messages. Whether it's a simple pictogram or the color used on a sign, individuals from around the world will be able to quickly understand the safety message a sign or

symbol is communicating and then react accordingly.

Yet it's important to remember that global standardization does not mean every sign would look exactly the same. There will always be plenty of room for individual customization, which brings us to the next trend in modern safety signage: custom signs.

A Customizable Future for Safety Signs

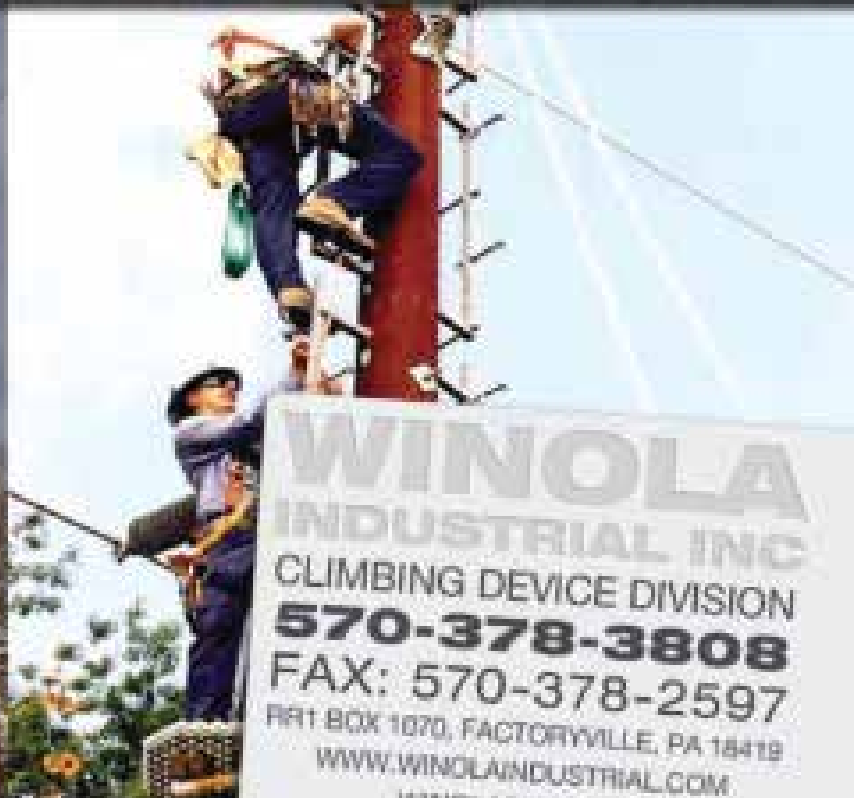
Advances in digital technology and printing equipment have brought a new level of customization that was never before possible in the industry. Today, customizing a safety sign for your specific requirements is quick, easy, and surprisingly affordable. Customization is often a necessity to comply with the myriad of state and local laws regarding smoking and firearms possession, where the text can be very specific.

Leading sign suppliers and distributors now offer custom online design tools, allowing end users to create a made-to-order, high-quality sign online in minutes. They can choose from pre-formatted OSHA and ANSI signs or create their own sign format from scratch. These easy-to-use online tools let a user select the sign header (English or Spanish), pictogram, size, wording, and even the sign material.

For companies with in-house sign and label printers, customization is even more accessible. On-site printers can create multi-color ANSI and OSHA signs up to 10 inches wide. These machines are now available as stand-alone units with simple operating systems that anyone on staff can use. If you need a durable sign for harsh environments, you simply print the sign in house and attach it to a rigid sign blank for added durability.

The availability of custom signage has opened the door for companies to better tailor their messages to their facilities' specific hazards. You can easily add custom text and unique facility

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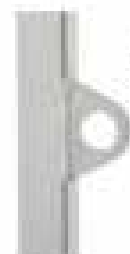
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details that will make your signs more effective for your employees. Many companies incorporate their logos and brand colors into their safety signs to create a more professional and uniform look throughout a facility.

Safety Signage Audits

After taking a historical look at the transition of safety signs from the early days to current standards and best practices, it's even more evident how essential safety signs are in today's industrial workplaces. They serve as early warning devices and alert workers to the different levels of hazards. Most importantly, they reduce accidents and protect lives.

To ensure that your facility is equipped with a compliant, up-to-date safety identification system, it's recommended to enlist the help of a third party for a safety signage audit. A safety expert can inspect your entire facility and assess your current safety signs for compliance and effec-

tiveness. At the end of the audit, you should receive a comprehensive, photographic report with prioritized corrective actions for ANSI and OSHA compliance, as well as a complete list of signs and markers that could help you improve your facility's safety signage.

Getting a third-party perspective can help you eradicate visual clutter, create consistency within your facility (and among multiple locations), and reduce your overall costs by improving productivity. It's the best way to rid your facility of antiquated safety signs, improve regulatory compliance, and boost safety awareness for the years ahead.

About the Author

Tom Smith is the group product marketing manager at Brady Worldwide, Inc. He is responsible for the safety and facility identification products at Brady and offers more than 20 years of experience in developing effective product solutions and tools for industrial, commercial, and construction markets. For more information on safety signs, including custom sign options and sign audits, visit www.BradyID.com.



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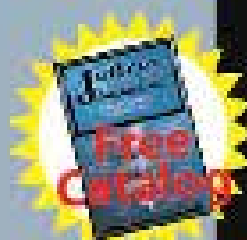
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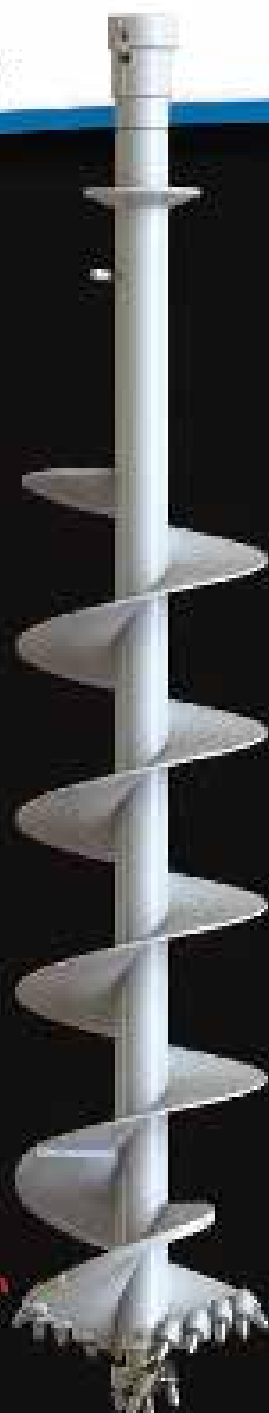
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HaloarrestXLink LSZH

Thermoset Jacket from Belden Offers Non-toxic Cable Solution for Industrial Markets

Belden Inc. a global leader signal transmission solutions for mission-critical applications, announces the availability of its HaloarrestXLink LSZH Thermoset Jacket, which offers a non-toxic cable solution for demanding industrial markets including oil and gas, utility and power generation, transportation, petrochemical and mining. This jacket material offers optimal oil, abrasion and high temperature resistance using a low smoke zero halogen (LSZH) compound. HaloarrestXLink jackets can be specified for any 600V Belden instrumentation or control cable.

Thermoset Jacket Solution for Industrial Applications

HaloarrestXLink thermoset jackets do not melt at any level of heat or when exposed to flame, protecting workers and preventing damage to expensive machinery. Like Belden's LSZH thermoplastic jackets, HaloarrestXLink thermoset jackets provide a safe, non-toxic, non-corrosive alternative for organizations that prefer to use non-halogenated products. Belden offers two thermoset jacketing options: HaloarrestXLink-1, which is compliant with the UL-1277 Oil Res I requirement and HaloarrestXLink-2, which is compliant with the UL-1277 Oil Res II requirement.

Safety Concerns Growing

In Europe and increasingly in the United States, safety concerns are encouraging the adoption of LSZH jackets in areas where there is limited ventilation, sensitive equipment or unprotected human

or animal populations that could be exposed to toxic fumes. In many countries, non-halogenated cable is now the standard.

Halogen-containing polymers, such as polyvinyl chloride (PVC) and fluorinated ethylene propylene (FEP), are inherently flame retardant, however, when halogens do burn, they produce smoke and acid gas that are toxic and corrosive, posing a threat to both humans and equipment. Halogenated cable can release acid gases that sear the eyes, nose, mouth, and throat. The fumes can disorient workers, preventing them from escaping a blaze. They can also cause severe respiratory damage.

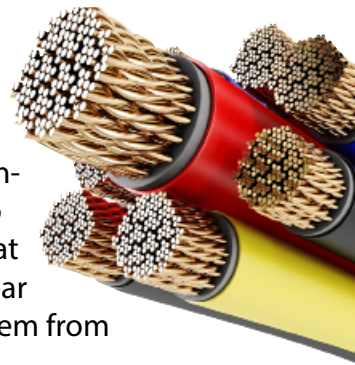
Safety and Reliability

The HaloarrestXLink LSZH Thermoset Jacket has been tested against many common and uncommon environmental corrosives. It is industry-approved for installations and applications that require oil resistance, weather and sun resistance, abrasion resistance and resistance to oxidation, acid and ozone. Installations of HaloarrestX-Link-jacketed cable provide safety without compromising reliability, thus mitigating the risk of downtime related to cable failure.

Availability

The HaloarrestXLink jacket is available for order now in North and South America.

For more information
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Duke Energy named to top citizenship list for fifth straight year

Duke Energy was ranked 26th on the 2013 list after being independently assessed in seven key areas: environment, climate change, human rights, philanthropy, employee relations, financial and governance. "Being named to the 100 Best Corporate Citizens list is a reflection of the contributions our employees are making to Duke Energy and the areas we serve," said Jim Rogers, the company's chairman and chief executive officer. "We continue to balance the diverse interests of our customers, communities, employees and shareholders."

Department of General Services Announces SCI Dallas Energy Improvement Contract Opportunity

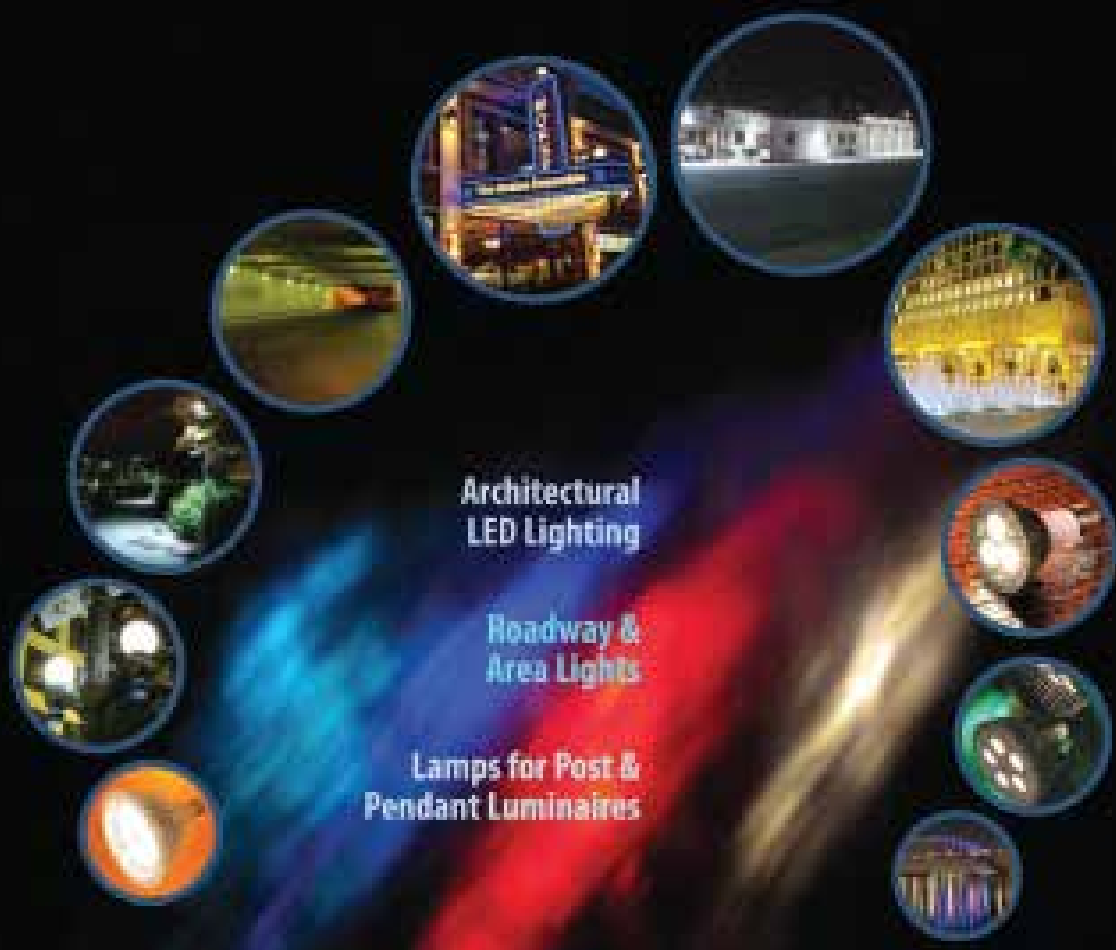
The Pennsylvania state Department of General Services is now accepting proposals for an energy efficiency project to be conducted at the State Correctional Institution Dallas, located in Luzerne County. "We are very excited to issue this project to assist our state Department of Corrections with their efforts to reduce energy and operations costs at SCI Dallas. This is also the first time the department will use the revised process for evaluating and awarding a Guaranteed Energy Savings Contract."

BTG Market: Thermal Power Equipments Global Industry Growth To 2020 Driven by China

According to the new report "Boiler, Turbine, Generator (BTG) Equipment for Thermal Power - Market size, Competitive Landscape and Forecasts to 2020" (<http://www.reportsnreports.com/reports/233949-boiler-turbine-generator-btg-equipment-for-thermal-power-market-size-competitive-landscape-and-forecasts-to-2020.html>), BTG market revenue in China will increase steadily from a expected total of US\$20.9 billion in 2013 to US\$30.1 billion in 2020, boosting the nation's share of the global market from 32% to 48%.

USPTO Rejects Gevo GIFT® Claims as Unpatentable and Grants New Butamax Patent for Efficient Recovery of Alcohol Produced During Fermentation

Butamax™ Advanced Biofuels, LLC, the leading biobutanol technology company, announced new biobutanol patent and technology developments. The United States Patent and Trademark Office ("USPTO") rejected all claims of Gevo Inc.'s U.S. Patent No. 8,101,808 ("808 patent"). The '808 patent was described by Gevo as "a landmark patent ... on its GIFT® separation unit, a central element in the Company's unique fermentation technology". The significance of this ACP is that the Patent Reexamination Specialist responsible has now heard both sides of the argument with respect to this patent, and has concluded that all of the original, amended and added claims are unpatentable.



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