

Information Pit Stops Motivate Employees to Love Their PPE

By J. A. Rodríguez Jr., CSP

Raytheon Technical Services Co. L.L.C.

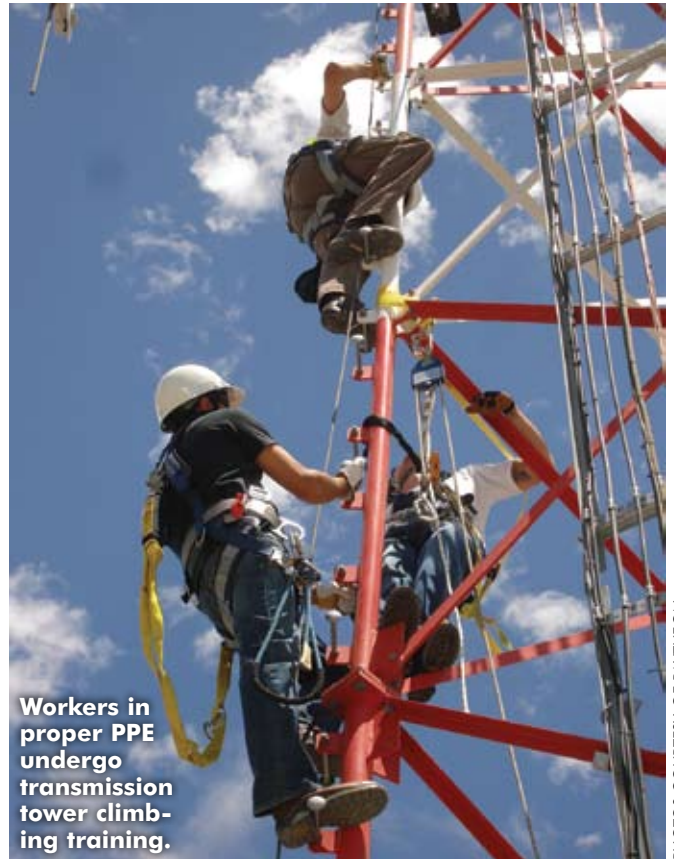
We receive news of a serious injury. Our natural reaction is to assure that medical assistance is offered immediately, followed by precautionary measures and securing the scene to assure that no one else is injured by the incipient causal factors. We then ask: "What happened?"

The investigation ultimately reveals that the employee was not wearing the company-required-and-provided personal protective equipment (PPE) while performing the ill-fated task. We ask... "Why? How can someone choose to take that risk?" You methodically trained the employee and provided the right PPE, at the right time, for the right job. Why did the worker not follow your company's policy and the detailed work instructions? Is the employee at fault? Absolutely! Are there areas for improvement within the PPE program? Affirmative!

We've all been there. You perform a detailed job hazard assessment. You carefully identify and specify the required PPE. You procure the best-fitting, best-performing equipment from trusted manufacturers and suppliers. You develop and deliver a seemingly content-rich PPE training program and follow the requirements of your company safety program and policy, OSHA, and every other PPE regulation, consensus standard and best practice recommendation. Yet, there is now an employee injury connected to a non-conforming use issue to show for your efforts.

All too often, employee failure to follow policies and procedures, including not wearing PPE or wearing PPE incorrectly, is one of the causal factors in workplace injuries.

The challenges associated with positively changing employee behavior are as old as the workplace. Most traditional PPE training programs are information-based and the presumption of an emotional sale is routinely taken for granted. The fact is that the provision of information with-



Workers in proper PPE undergo transmission tower climbing training.

PHOTOS COURTESY OF RAYTHEON

out the incorporation of emotional considerations leads to behaviors associated with temporary retention and consequential non-compliance.

How we choose to behave has a great deal to do with what information we feel is important and the perceived consequences of acting or not acting on that information. If we believe that a behavior and resulting action will devastate our lives, then we will view the information leading to that realization as vitally important, and the likelihood is high that we will pursue a different course of action. The opposite is also true. If we view the consequences of our behavior as very beneficial, we will likely act on it positively.

The universal behavioral laws of commerce state that if you view something as being good for you, you will likely buy it. The tried-and-true sales rule applies to selling a PPE program to your employees: A sale can only occur when a buyer's need or expectation is perceptually met by the seller.

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NIOSH helps reduce respirator selection confusion

Trainer helps pupil secure his harness for tower climbing.



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John J. Hall, CSP, director of EHS for Raytheon Technical Services Company LLC, also contributed to this article.

MOTIVATE EMPLOYEES

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Linking Information to Emotion

Employees have a deep-rooted need to understand why they should "buy into" a PPE program. The rationalization phenomenon thrives within employees when the reasons behind the company directive are not disclosed or embraced. The issue is compounded when operational and performance pressures are at odds with doing the right thing at the right time.

Scenario: Let's say you're driving at night on a less-traveled, dark two-lane road and you encounter three men waving frantically in the middle of your lane demanding for you to stop your vehicle. You glance to the right and notice that there is enough room on the shoulder for you to squeeze by. What decision would you make as a woman, as a man?

Some of you would stop and engage; others would choose the obvious direct line of escape via the right shoulder; others would stop, assure the doors and windows are secured and then wait to see what happens next; others would pull a movie stunt, drive in the opposite direction so as to not risk a perceived undesirable encounter.

Consider the same scenario except that shortly before you see the three men standing in the middle of your lane, you hear a radio news flash reporting a very deep sinkhole in the road just ahead of your current position. Now, what decision would you make as a woman, as a man?

Is it safe to say that at least one of the options, zooming past the men, is likely not your option of choice. The question now is: why is this particular option now eliminated as a viable choice?

Pit-Stop Your Emotions for Better Decisions

The answer lies beyond the obvious (that you now have vital information that was previously unknown). Once information is emotionally pit stopped, we grant it a higher level of importance. This phenomenon then facilitates a narrower decision-making process.

Your natural reaction is to perform a deductive analysis — eliminate the one option that is likely to cause you the most

harm, and to select one of the other seemingly safer alternatives. Your informed choice in behavior is driven by the fact that you were made aware of the consequences of electing to drive past the strangers and that these consequences have the distinct potential to significantly and adversely change your life forever. Failing to provide information that will lead to this type of deductive analysis in your PPE program presents employees with many available behavioral choices, some of which innately have the potential to cause serious injury and illness.

Much like the dark road, workplaces have inherent and significant hazards. Like the sinkhole, hazards will cause harm if not guarded and/or not communicated.

Employee behavior and subsequent safety performance depends on your program's effectiveness in communicating the personal consequences of not utilizing or not properly using (unintentional or otherwise) PPE during work performance. If communicated appropriately, employees will understand that the consequences of properly and consistently following the PPE program far outweigh the risks of non-compliance. They will also realize that their conforming behaviors will protect them, their families and their co-workers in terms of earning potential, quality of life, and overall happiness.

The Simple Guide to Motivating Employees to Love Their PPE

Why is it that we remember details about specific world events during our lifetime? We remember where we were, who we were with, and our thoughts at the time of the event, yet most of us cannot remember the license plate number of the last car we saw this morning; never mind the color. The reason is that we were exposed to information that we did not emotionally process.

Protection 50th ANNIVERSARY UPDATE
NEWS FROM THE INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION

Protection Update

is intended for anyone who specifies, purchases or uses personal protective equipment, and those who regulate it.

Protection Update is available via ISEA's website, www.safetysitequipment.org.

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The information did not make a pit stop and, therefore, the low retention factor was predictable and inevitable.

Employees who love their PPE also use it properly, maintain it, store it, respect and understand its limitations, are vocal when it is in need of repair or requires replacement, and do not engage in hazardous work without it.

Here are some examples of how to incorporate effective information pit stops into your PPE training and communications programs with the ultimate goal of forging formidable bonds between information and employee emotional buy-in:

- Offer traditional information, but sprinkle in the primary and physical consequences of not acting on the information appropriately, for example, loss of life, eyesight, hearing, lung capacity, limbs, physical appearance, organ and brain function, etc.
- Next, tie in the secondary and emotional consequences of non-compliance by highlighting the fact that an injury at work can significantly impact the quality of life for the family at home; describe how.
- Finally, connect the dots to demonstrate how the proper selection, use, care and maintenance of PPE can prevent these undesirable consequences from manifesting and how your organization is committed to protecting their well being. (Editor's note:

You can find numerous examples of how PPE has saved lives and prevented serious injuries in the publication *Safety Equipment Works for You*, which is downloadable free under the "News and Publications" tab at www.safetysiteequipment.org.)

- Include the family. Sponsor a contest where family members compete by submitting topical artwork, for example, "How does PPE protect my dad/mom/grandparent/sister/cousin at work?" Video formats are highly effective, as well. This approach encourages employees to talk to their families about how they protect themselves from work hazards.

- Secure the commitment. Highlight on monthly posters/electronic bulletins employee comments on why they wear their PPE and how it has protected them from hazards. Ask the question: "What kept you safe yesterday?" This program element helps establish personal commitment and sets the bar for others to follow.

- Foster the right culture. Initiate a campaign, then a corporate lifestyle that encourages peer critiques of PPE program compliance. A suggested title for this campaign is: "Taking care of each other, for each other." Establish an expectation where it is not only okay, but celebrated, when a peer employee approaches another about an unsafe behavior or emerging condition. ●

Look for PPE from ISEA Members

Protection Update readers are encouraged to specify personal protective equipment from International Safety Equipment Association members. Find links to all member companies at www.safetysiteequipment.org; click on "Resources" and, from the drop-down menu, click on "Buyer's Guide."

Order Complete Set of ANSI/ISEA Standards at Deep Discount

ISEA is offering a complete set of its American National Standards at 30 percent off the price of purchasing the publications individually. For \$325 including shipping, safety officers can get all the following publications in a convenient three-ring binder:

- *American National Standard for Limited-Use and Disposable Coveralls - Size and Labeling Requirements*, ANSI/ISEA 101-1996 (R2008)
- *American National Standard for Classification and Performance Requirements for Chemical Protective Clothing*, ANSI/ISEA 103-2010
- *American National Standard for Gas Detector Tube Units - Short Term Type for Toxic Gases and Vapors in Working Environments*, ANSI/ISEA 102-1990 (R2009)
- *American National Standard for Air Sampling Devices - Diffusive Type for Gases and Vapors in Working Environments*, ANSI/ISEA 104-1998 (R2009)
- *American National Standard for Hand Protection Selection Criteria*, ANSI/ISEA 105-2011

- *American National Standard for High Visibility Safety Apparel and Headwear*, ANSI/ISEA 107-2010
- *American National Standard for Air-Purifying Respiratory Protective Smoke Escape Devices*, ANSI/ISEA 110-2009
- *American National Standard for Fixed and Portable Decontamination Shower Units*, ANSI/ISEA 113-2008
- *American National Standard for High Visibility Public Safety Vests*, ANSI/ISEA 207-2011
- *American National Standard for Occupational and Educational Personal Eye and Face Protection Devices*, ANSI/ISEA Z87.1-2010.
- *American National Standard for Industrial Head Protection*, ANSI/ISEA Z89.1-2009
- *American National Standard - Minimum Requirements for Workplace First Aid Kits and Supplies*, ANSI/ISEA Z308.1-2009
- *American National Standard for Emergency Eyewash and Shower Equipment*, ANSI/ISEA Z358.1-2009

Order directly online or download a faxable order form at www.safetysiteequipment.org.

SPOTLIGHT ON...



Dräger Safety

Responders are a primary market for Dräger's range of safety technologies.

PHOTOS COURTESY OF DRÄGER SAFETY

Can you give us some background on Dräger Safety?

Dräger is a leading international company in the fields of medical and safety technology. Dräger products protect, support and save lives. The Dräger company generated revenues of around 2.18 billion euros (\$2.85 billion) in 2010. The Dräger Group currently operates in more than 190 countries, with more than 40 companies having sales, service and subsidiaries, and has some 11,000 employees worldwide.

Dräger's production workers produce 5,000 respiratory protection masks in an average work week. Wherever there is danger in the air you breathe, Dräger makes breathing safe.

What is Dräger's history, where did it start and why?

Our story began in Germany with beer. The company was founded by Johann

Heinrich Dräger in 1889. He was dissatisfied with the existing beer tap system where the flow of beer was uneven and the equipment was often out of order. Trained as a watchmaker, Dräger developed the first reliable reducing valve for carbonic acid in 1889, called the Lubeca valve. He decided not to sell his invention, but to produce the valve himself. Since then, Dräger has remained a family business. It is in its fifth generation and in this time has grown to become a German stock exchange listed company. Stefan Dräger has been at the helm as CEO since 2005.

How would you describe Dräger's mission?

Dräger is technology for life. Safety technology isn't an end in itself; its job is to protect lives. We need to understand what our customers need, and this is why Dräger takes time to ascertain customer needs before it goes to the drawing board. Because our products protect people from danger, we need to provide them with solutions that really support them.

What are Dräger's primary markets and how do you strive to meet their needs?

Our primary markets in safety technology are responders, mining, and oil and gas. We believe that our customers are buying more than just a product offering. Our customers understand the true value of preferred compatibility — where one part of a product combines with another part of the product or company to equal more than the sum of both parts. In essence $1 + 1 = 3$ — or more than 3. For example, when you buy a Dräger product, you buy increased safety, quality, engineering, reliability, durability, technical support, overall product performance, etc.

If prospects want to check out Dräger products, where would they find them?

In the United States, Dräger sells through channel partners. You can find one near you at www.draeger.com/channelpartners.

Why should someone who needs safety equipment obtain it from your company?

- Ease of use — Our product offers a valuable support structure for the customer, whether it is through (1) simplified training,

Dräger's technologies protect lives when danger is in the air.

"Spotlight on..." highlights an ISEA member company that is working hard to ensure that workers are protected by world-class safety equipment. Answers to questions about Dräger Safety were provided by Marion Varec, Marketing Communications, Dräger, 101 Technology Drive, Pittsburgh, PA 15275, 412-787-8383, marion.varec@draeger.com ●

(2) fast and easy assembly or delivery, or (3) product compatibility.

- **Ease of maintenance and installation** — Dräger makes maintaining its products easy for the user. When the user combines ease of use with ease of maintenance, there is a synergy created in the overall product offering.
- **Low overall cost of ownership** — This is where the customer tangibly sees one of the greatest values in using Dräger. The quality and level of built-in product engineering create clear, quantifiable financial savings for the user in the long run.

What is the key feature that differentiates Dräger from others making and selling safety equipment?

Our brand stands for innovation and quality. It provides more security for our customers and dramatically increases confidence that the deployed safety equipment will respond

reliably and consistently to meet their operational and safety needs. We stand for innovative, quality designs that enhance safety and productivity while reducing overall cost of ownership. We understand the application areas where our products are used. We focus on innovative technology and high quality. We are personally committed to our own high standard of safety.

What are Dräger's offerings that provide unique performance characteristics not found elsewhere?

Dräger's unique training programs and products show customer commitment. Dräger's commitment to the safety of our customers is clearly illustrated by our training facilities. In fact, we are currently the only manufacturer of safety equipment to provide real-world customer training products and programs. ●

Updated Vest Standard Enhances Protection For Law Enforcers, Emergency Responders

The International Safety Equipment Association (ISEA) has published an updated *American National Standard for High-Visibility Public Safety Vests (ANSI/ISEA 207-2011)*, which is the authoritative document for the design, performance specifications, and use of high-visibility vests specifically worn by public safety employees, including law enforcement, firefighters and incident command personnel.

The revised standard represents an update to the 2006 publication and was approved by key stakeholders representing municipal fire and police departments, testing laboratories, product suppliers and government agencies.

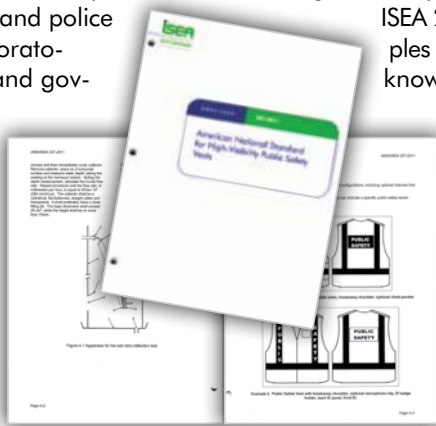
Though the update does not change the well-established requirements for compliant vests with respect to materials used in their configuration, it does provide direction with respect to recognition of the

wearer in terms of logos, lettering or other identification means.

"ISEA members are aware of the need for emergency personnel to be recognized during a situation where multiple responders may be present and where their identification is critical to mitigating the crisis at hand," said Jim Teigen, chairman of the ISEA High-Visibility Products Group and chief operating officer of OK-1 Manufacturing, Altus, Okla.

The 29-page American National Standard for High-Visibility Public Safety Vests (ANSI/ISEA 207-2011) includes examples of apparel configurations known to meet the standard.

The standard can be purchased from ISEA for \$60 a copy; discounts are available on bulk orders. For more information, contact Cristine Z. Fargo, ISEA director of member and technical services, cfargo@safetysystem.com or 703-525-1695. ●



ISEA Forum for PPE User Community Plans Return To NSC Expo in 2012

International Safety Equipment Association (ISEA) planners already are gearing up for a bigger, better forum for the personal protective equipment (PPE) user community at the National Safety Council (NSC) Congress & Expo in 2012 on the heels of a successful first-ever forum at the 2011 Expo in Philadelphia.

At the fall 2011 event, experts from leading safety equipment manufacturers gave employers, safety professionals and PPE users first-hand insights and answered their questions on important topics in the areas of fall, hearing and respiratory protection and PPE conformity assessment.

The "PPE Solutions from ISEA Experts" forum was organized by ISEA's Marketing and Communications Committee. Based on favorable response from the audience and NSC, the committee already has begun work on an enhanced and expanded forum for the 2012 Congress & Expo, which will be held October 21-26 in Orlando, Fla.

Links to the 2011 forum presentations may be found on ISEA's website at <http://www.safetysystem.com/news/newsDetail.cfm?NewsID=78>. ●

CONSTRUCTION CORNER

12 New OSHA Guides Focus On Construction Hazards

The U.S. Occupational Safety and Health Administration (www.osha.gov) has released **12 educational videos about potential hazards in the construction industry**. The easy-to-understand videos, which are geared to the needs of employers and workers, cover falls in construction, workers who are struck by vehicles and heavy equipment, sprain and strain injuries, trenching and excavation hazards, and carbon monoxide poisoning.

Most are two to four minutes long, and 11 are animated. Each is available in English and Spanish for Web viewing or downloading. All scripts also are available online in English and Spanish. The videos are based on real-life incidents and include detailed depictions of hazards and safety measures that would have prevented injuries or fatalities.

In a related action, OSHA has published an *update of its Construction Industry Digest*, which is an informational booklet that gives an overview of frequently used OSHA standards in the Construction industry. OSHA also has published three new fact sheets on reducing falls during residential construction. The sheets focus on "Installing Roof Trusses," "Installing Tile Roofs" and "Roof Repair." They include information on hazards involved in roof work, proper use of ladders, scaffolds, aerial lifts and personal fall-arrest systems,

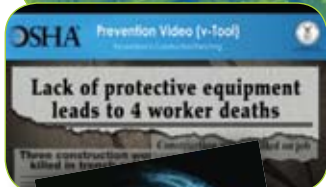
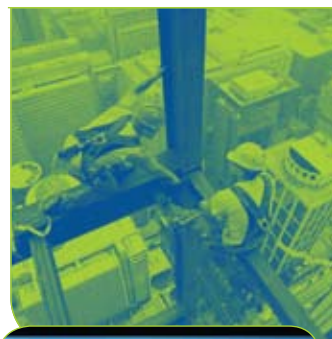
including body harnesses, lanyards and lifelines. Find them from OSHA's "Residential Fall Protection Web page."

The **National Institute for Occupational Safety and Health** (www.cdc.gov/niosh) in partnership with OSHA has developed new **guidance to help prevent work-related nail gun injuries**, which account for some 37,000 emergency room visits annually. *Nail Gun Safety — A Guide for Construction Contractors* explains body parts most often injured and the types of severe injuries that have been reported. The booklet also describes common causes of nail gun injuries and six practical steps to prevent them.

On the same topic, Dr. Hester Lipscomb of Duke University in conjunction with CPWR — the Center for Construction Training and Research has launched a new **Web site — www.nailgunfacts.org** — that provides video interviews with workers, along with information on how to prevent nail gun injuries.

CPWR also reminds that it has 80 different toolbox safety talks available from its eLCOSH website (www.elcosh.org); these short lessons are available free.

Concrete Sawing and Drilling Association (www.cstda.org) has released new "Best Practices" on: (1) Hearing Conservation; (2) Establishing and Maintaining the Work Area, and (3) Mechanical Anchors. ●



Top to bottom: OSHA video; NIOSH nailgun safety PDF; CPWR nailgun safety web Site

ISEA'S New Personal Fall Protection Guides Available Free Via Download

Two new documents from the International Safety Equipment Association (ISEA) that will help protect workers whose jobs expose them to fall hazards are available free via download from the association's website — www.safetysite.org.

A *Personal Fall Protection Equipment Use and Selection Guide* provides practical, hands-on guidance for users and administrators in their selection, use, maintenance and inspection of fall protection equipment. A companion document, *Frequently Addressed Topics in Fall Protection*, covers subjects on which manufacturers get frequent inquiries.

The 28-page, full-color use and selection guide describes the process of developing a corporate fall pro-

tection program; explains the components of fall protection systems; gives examples of how to select equipment for various types of work, and outlines steps for planning the use of fall protection systems.

The six-page *Frequently Addressed Topics in Fall Protection* is the first in a new series of "PPE Perspectives" papers. It answers questions about equipment and systems, applications, and other considerations in planning and implementing a fall protection program.

Both documents are available free online in PDF format, and they will be updated as required by changes in regulation or standards. Link to both guides from <http://www.safetysite.org/c/fall.cfm>. ●

MAKING WORKERS SAFER AROUND THE NATION

International Safety Equipment Association

(ISEA) member companies have made the following advances to make workers safer:

● **Honeywell Safety Products' Uvex® safety eyewear brand and Prevent Blindness America** have launched the Eye2Eye initiative (www.eye2eyeprogram.com), which aims to reduce the more than 800,000 work-related eye injuries that occur every year. Eye2Eye is a Web-based educational resource that trains employees to communicate the importance of eye health and safety to each other, increases eye safety compliance and builds a stronger culture of safety in the workplace. Upon completion of the program, employee representatives become certified Eye2Eye Safety Ambassadors, Honeywell said.

● **MSA, The Safety Company** (www.MSAnorthamerica.com) has published a new white paper on the "ANSI/ASSE Z359.7.2011 Standard for Qualification and Verification Testing of Fall Protection Products." The paper (Bulletin #2300-134-MC) summarizes and explains the new standard, which establishes industry guidelines on minimum requirements for the certification of fall protection products.

● **U.S. Safety** (www.ussafety.com) has launched a cleaning & inspection program for fall protection. Abrasive dirt and grime can become trapped in the webbing, causing accelerated wear, and undetected damage from chemicals and burns can cause catastrophic failure. After company experts provide a thorough cleaning and rigorous 24-point inspection, goods are returned to customers with a full report, along with products tagged for removal from service. Learn more at www.fallogic.com.

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● **The U.S. Occupational Safety and Health Administration** (www.osha.gov) has published new and updated educational materials on a variety of worker-safety-related topics, including:

● **Safety and Health Training Resources Web page** to help users locate the wide selection of training courses and educational programs to help broaden worker and employer knowledge on the recognition, avoidance, and prevention of safety and health hazards in their workplaces. OSHA also offers training and educational materials that help businesses train their

workers and comply with the Occupational Safety and Health Act.

● **Small Entity Compliance Guide for Respiratory Protection Standard**, which provides small businesses with a comprehensive, step-by-step guide with checklists and commonly asked questions that will aid both employees and workers with a better understanding of OSHA's respiratory protection standard. OSHA also has a "Respiratory Protection Web page" that features hazard alerts and training materials.

● **Laboratory Safety Guidance** document, which describes how electrical, fire, explosions and falls can be minimized or eliminated if employees use safety plans, worker training, engineering controls and personal protective equipment. Other new materials include fact sheets that advise laboratory managers on how to protect workers from exposure to chemical, biological and physical hazards.

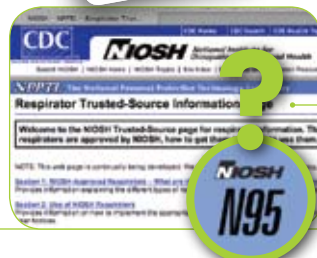
● **Aerial Lift Fall Protection Over Water in Shipyards QuickCard** that lists ways to protect workers using aerial lifts from injuries and death resulting from equipment failure, tip-over, falls and ejection.

● **Permit-Required Confined Spaces in General Industry QuickCard** that explains what workers should do before entering confined spaces, such as underground vaults, tanks, storage bins, silos or manholes.

● **Trenching and excavation materials**, including a fact sheet, a "Working Safely in Trenches QuickCard," and "Do Not Enter an Unprotected Trench!" poster. All are intended to educate workers and employers about the hazards workers face in trenching operations.

● **The National Institute for Occupational Safety and Health** (www.cdc.gov/niosh) advises that **buying a respirator can be confusing**, especially because some facepieces are marketed and advertised as being approved by NIOSH when, for a variety of reasons, they have not actually been certified. For that reason, the agency has launched a new campaign called "Know It's NIOSH" to make it easier to verify NIOSH-certified respirators.

Go to <http://knowits.niosh.gov>, and you will be re-directed to the NIOSH respiratory source Web page, which enables you to verify whether or not the product you have is NIOSH-approved.



MAKING WORKERS SAFER AROUND THE NATION *continued*

Other new NIOSH communications products include:

- “Diesel Aerosols and Gases in Underground Mines: Guide to Exposure Assessment and Control” (Publication No. 2012-101), which addresses the challenges to control workers’ exposure to submicron aerosols and noxious gases generated through the extensive use of diesel-powered equipment. A key section focuses on use of respiratory protection.

- “Flavoring-Related Lung Disease — Information for Healthcare Providers” (Publication No. 2012-107), which focuses on the severe obstructive lung disease that has been identified in people who work with chemicals containing diacetyl, including butter flavoring. NIOSH encourages respirator use to reduce exposures.

The U.S. Chemical Safety Board (www.csb.gov) has issued a new safety video on potential hazards associated with conducting research at chemical laboratories in academic institutions. “Experimenting with Danger” focuses on three serious laboratory accidents that occurred at the University of California Los Angeles, Dartmouth College and Texas Tech University. It is available free via download.



The Research and Education Unit of the **California Division of Occupational Safety and Health**, better known as Cal/OSHA, has issued nine new or updated publications. They cover topics ranging from working safely with scaffolds to setting up toolbox/tailgate safety meetings. All may be downloaded free from Cal/OSHA’s Publications page (<http://www.dir.ca.gov/dosh/puborder.asp>).

American Chemistry Council’s Center for the Polyurethanes Industry has released a new video on “Working Safely with Low-Pressure Spray Polyurethane Foam Insulation.” The nine-minute video, which is targeted to weatherization professionals and spray foam contractors, may be downloaded from www.spraypolyurethane.org.

The American Society of Safety Engineers (www.asse.org) has published a new Sixth Edition of *An Illustrated Guide to Electrical Safety*, an easy-to-use reference to navigate through recent updates to the National Electrical Code (29 CFR 1910 Subpart S, Part 1, “Design Safety Standards for Electrical Systems,” and Part 2, “Electrical Safety-Related Work Practices”). ●



John Salce

Retired 3M Scientist Honored for Contributions to Worker Safety

John Salce, retired senior scientist at 3M Company’s research and manufacturing facility in Southbridge, Mass., is the 2011 recipient of the International Safety Equipment Association’s (ISEA’s) Robert B. Hurley Distinguished Service Award. The award honors a career that spanned over 40 years in the design, testing and manufacturing of personal protective equipment for workers.

During most of his career, Salce was active with ISEA, where he led the development of product standards for eye, face and head protection that are used throughout the United States and the world.

Over the course of his career, Salce was a respected authority on sophisticated protective technologies involving a high degree of understanding of light, optics and protection. He and his colleagues received 26 patents for safety eyewear ranging from plano lens products to parabolic and

hyperbolic aspheric eyewear and safety eyewear that adjusts to a pantoscopic angle, which allows users of bifocal lenses to get the same protection as those wearing single-focus lenses.

“When a pair of safety spectacles catches a flying nail or dims a brilliant flash and saves a worker’s sight, the company that made the product gets the credit,” ISEA President Dan Shipp said. “Its designer doesn’t sign his work. That’s too bad, because there would be a chorus of clear-eyed workers joining us as we present John Salce the Distinguished Service Award.”

ISEA presents the Distinguished Service Award each year in memory of Robert B. Hurley, president of Fendall, Inc., who died in 2002. It honors an individual who, by a single action or the work of a lifetime, has made a significant and lasting contribution to the health and safety of workers. ●

OSHA \$100,000 CLUB OF SAFETY CITATIONS

The U.S. Occupational Safety and Health Administration (OSHA) proposed penalties of \$100,000 or more during the Sept. 1 — Dec. 31, 2011, period for the following alleged failures to protect workers from potential hazards. All included citations for failures to provide or properly train workers in the use of personal protective equipment (PPE) and other forms of safety gear. Companies have 15 business days from receipt of citations and fines to request and participate in informal conferences with OSHA or to contest the citations before the independent Occupational Safety and Health Review Commission:

- Piping Technology and Products Inc., \$1,013,000 for 13 willful and 17 serious violations, mainly for exposing workers to the risk of amputations and other serious injuries from dangerous machinery at the company's Houston plant, which makes engineered pipe supports, expansion joints, pre-insulated pipe supports and miscellaneous fabrication for various industries and applications.
- PJ Trailers Manufacturing Co. Inc. and Delco Trailers Co. Inc., a similar company owned by PJ Trailers, \$949,800 for seven willful, 26 serious, and 13 other violations at their manufacturing operations in Sumner, Texas.
- Bostik Inc., \$917,000 for 50 violations following a March 13, 2011, explosion at the company's Middleton, Mass., adhesives plant.
- All-Feed Processing & Packaging Inc., Alpha, Ill., \$758,450 for 23 violations at its pet food processing and packaging facility in Galva, Ill., including violations of OSHA's respiratory protection and hearing standards.
- DeMoulas Supermarkets Inc., Tewksbury, Mass., doing business at Market Basket, \$589,200 for 30 violations at its stores in Concord and Rindge, N.H.
- Boomerang Tube LLC, \$468,000 for 16 violation at the company's operation in Liberty, Texas.
- Bridgford Foods Corp., Anaheim, Calif., \$422,600 for violations including failing to establish a hearing conversation program at its frozen bread dough products operation in Dallas.
- Case Farms Processing Inc., which operates Case Farms Chicken, Wineburg, Ohio, \$288,000 for 61 violations mainly related to process safety management.
- Two Chicago companies — T2 G.C. LLC, which operates T2 Construction, and Gramek Construction Inc. — a total of \$280,200 for failing to protect workers from asbestos hazards during demolition at a Chicago job site.
- Corpus Christi Grain Co., \$258,900 for 26 violations at the company's Corpus Christi, Texas, grain elevator.
- Cenex Harvest States Inc., doing business as Central Montana Co-Op, \$229,000 for violations at the grain elevator areas of a facility in Columbus, Mont.
- Texas Barge & Boat Inc., \$221,200 for 40 violation violations following the deaths of two workers from a fire at the company's boat and barge repair facility in Freeport, Texas.
- Sigma Processed Meats Inc., \$204,800 for violations at the company's Seminole, Okla., processing plant.
- Resource Management Cos., \$195,930 for 37 violations found at its Earth City, Mo., recycling facility.
- Marietta Industrial Enterprises Inc., which operates Refuse Recycling in Marietta, Ohio, \$186,300 for 21 safety violations after a worker died inside a machine used to screen recyclables from other refuse.
- Midsouth Steel Inc., Atlanta, \$184,800 following an inspection that found workers exposed to fall hazards while performing roofing work in Union City, Ga.
- Twin Pines Construction Inc./Teles Construction Inc., Everett, Mass., \$180,100 for violations at a building under construction in Portsmouth, N.H.
- Loos & Co. Inc, \$177,000 for 29 violations at its cable manufacturing plant in Pomfret, Conn.
- Stowe Woodward LLC, \$176,000 for 16 violations following an inspection at its plant in Concord, N.H., which refurbishes large metal rolls for the paper industry.
- Remington Arms Co. Inc., \$170,000 for 35 violations at its Iliion, N.Y., manufacturing plant.
- Central Transport International Inc., Warren, Mich., \$164,800 for 17 violations at the company's Hillside, Ill, freight operation. OSHA also proposed a fine of \$114,000 for violations at Central Transport's freight operation in Omaha, Neb.
- Juan Sagredo, a Doraville, Ga., masonry contractor, \$164,120 for violations at worksites in Sugar Hill and Conyers, Ga.
- Walsh Corp., Boston, \$161,000 for violations at a Hanover, Mass., water main worksite.
- A-Absolute Construction Inc., Roselle, N.J., \$158,400 for 10 violations at a worksite in Parsippany, N.J.
- Harbor Point Mineral Products, \$155,200 for 21 violations at the company's Utica, N.Y., animal feed processing facility.
- ILAPA Inc., doing business as Lasting Impressions Event and Party Rentals, Bedford Heights, Ohio, \$154,000 for 19 violations.
- Electronic Plating Co., Cicero, Ill., \$151,400 for 22 violations involving employee exposure to chemical and physical hazards without protection.
- Polar Service Center, \$151,000 for 14 violations at its tank trailer service and repair center in Billings, Mont.
- Sneed Shipbuilding Inc., \$150,700 for 25 violations at its Channelview, Texas, operation.
- United Contracting, Forest Junction, Wis., \$149,200 for 14 violations after OSHA found workers without fall protection at two Fond du Lac, Wis., jobsites.
- Gainesville Tree Service Co., Alachua, Fla., \$147,000 for six violations found during an inspection at a Gainesville, Fla., jobsite.
- Petag Corp., \$144,760 for 31 violations at the company's recycling plant in Houston.
- Gire Construction Inc., Champaign, Ill, \$144,100 for six violations for failing to provide fall protection to roofers working on projects in Decatur and Champaign, Ill.
- DUNA USA Inc., \$136,800 for 32 violations, including exposing workers to hearing loss, at its polyisocyanurate/polyurethane foam manufacturing plant in Baytown, Texas.
- Steel Structures of Ohio, \$134,400 for 17 violations at its Akron, Ohio, steel fabricating operation.
- C.O. Grain Inc., \$132,000 for 16 violations found during an inspection at its Atkinson, Neb., grain storage facility.
- Robinson Drilling of Texas Ltd., Big Spring, Texas, \$130,900 for 11 violations at a worksite in Lenorah, Texas.
- Massachusetts Bay Commuter Railroad Co. LLC, \$130,800 for 22 violations at its Somerville, Mass., maintenance facility.
- Ringo Drilling I LP, Tye, Texas, \$130,200 for seven violations after an employee was electrocuted at a worksite near Ozona, Texas.
- Total Remodeling Services LLC, Shelton, Conn., \$127,560 for violations related to fall hazards at a worksite in Stratford, Conn.
- Four contractors — Tutor Perini Corp. (Jamaica, N.Y.), ▶ 38

SAFETY EQUIPMENT

Works for You

Send Us Your 'Safety Equipment Works for You' Stories

Protection Update welcomes contributions from readers for our regular "Safety Equipment Works for You" feature. Email examples of where PPE has saved workers' lives or prevented injuries to Editor Joe Walker, jwalker@safetyequipment.org, or mail them to the Editor, *Protection Update*, International Safety Equipment Association, 1901 N. Moore Street, Suite 808, Arlington, VA 22209. Photos are encouraged.



Helmet Takes Incredible Impact — Saves Worker's Life

Think wearing a hard hat is optional? Think again. Every year, hundreds of workers' lives are saved simply by putting on hard hats. Take the case of Ryan DeVolder, who credits his helmet with protecting him from possible injury and death.

Ryan was installing steel clips for a downtown San Francisco window system while a crew working above was stripping concrete without a safety net. Suddenly, a 10-pound chunk of concrete broke loose and fell six stories directly onto Ryan's head. The 600 pounds of driving force smashed his face into the building, shattering his cheekbone, fracturing his skull and crushing several teeth.

Yet despite the tremendous impact, Ryan never lost consciousness. "The building is right on the sidewalk," he recalled. "It could have hit someone walking — and if they weren't wearing a hard hat it would have taken them out for sure."

Skullgard® hard hat by ISEA member **MSA — The Safety Company**, www.msanorthamerica.com.



Fall Protection Saves Life of New York Worker

A harness and lanyard saved a man's life after he fell off of the suspended platform from which he was working at an Upper Manhattan apartment building in December 2011, according to *Construction Safety Dispatch*.

The platform was about six floors up when the man lost his balance and went over the side. His harness and lanyard left him dangling until an aerial lift arrived to rescue him.

"The harness and safety lines are everything to this guy," said a New York City fire official interviewed at the scene. "If they're not working properly or if he's not using them, he probably could have been severely injured in a fall. It was a good day for him two weeks before Christmas."

A bystander at the scene added: "Had he not had that safety harness on he definitely would have been dead — absolutely a goner."

OSHA \$100,000 CLUB from page 37

Navillus Contracting Inc. (Manhattan), LVI Demolition Services Inc. (Everett, Mass.), and Manafort Bros. Inc. (Plainville, Conn.) — \$126,400 for 19 serious violations during construction work at Aqueduct Racetrack in Queens, N.Y.

- Cooperative Producers Inc., \$126,500 for exposing workers to a variety of hazards at its grain elevator facility in Franklin, Neb.

- Supply Plus NJ Inc., \$126,000 for 28 violations at its sponge processing operation in Paterson, N.J.

- Gardner Equipment Co., \$125,900 for violations at its facilities that make and paint metal birdhouses in Columbus and Juneau, Wis.

- Jay Imports Co., \$125,300 for 10 violations for exposing workers to fall and other hazards at the company's Bayonne, N.J., warehouse.

- Briggs & Stratton Power Products Group LLC, \$125,000 for violations at its Munnsville, N.Y., lawnmower manufacturing plant.

- ABC Coke, a division of Drummond Co., \$124,000 for violations found following the death of a worker at its Birmingham, Ala., coke making operation.

- Future Environmental Inc., Mokena, Ill., \$122,760 for 10 violations; inspectors found workers exposed to respiratory and confined space hazards while cleaning waste tanks.

- Wood-Mode Inc., \$122,200 for exposing workers to hazards at its kitchen cabinet facility in Kreamer, Pa.

- New Brunswick Scientific Co., \$122,000 for 29 violations at its Edison, N.J., laboratory equipment operation.

- Candler Concrete Products Inc., \$120,370 for 19 violations following an inspection at the company's Gainesville, Ga., plant.

- Granbury Contracting and Utilities Inc., \$118,580 for four

violations following the death of a worker at the company's Gordon, Texas, facility.

- McKeefe Ventures, doing business as Colorado Blue Ribbon Foods LLC, \$116,160 for 28 violations found during an inspection at the company's Rocky Ford, Colo., operation.

- Anchor Hocking LLC, \$113,800 for 12 violations found during an inspection at the glass products manufacturing operation in Lancaster, Ohio.

- Grenada Stamping and Assembly Inc., doing business as Ice Industries Grenada, \$113,400 for 26 violations following an inspection at the company's Grenada, Miss., facility.

- A&B Ironworks LLC., a New York City masonry contractor, \$110,220 for violations chiefly involving fall and scaffold hazards at a Manhattan worksite.

- Milac Manufacturing Inc., \$110,220 for eight violations following an inspection at the company's Moultrie, Ga., commercial chrome products preparation plant.

- G.A. Denison & Sons, a New London, Conn., contractor, \$110,000 for 14 violations after OSHA observed workers without fall protection at a worksite in Old Lyme, Conn. ● ●

- Model Screw Products Inc., Clearwater, Fla., \$109,800 for 18 safety violations following an investigation into a complaint that PVC piping was inappropriately being used for compressed air.

- Wilbar International, \$106,200 for 20 violations after a worker's fingers were crushed in a press at the company's Hauppauge, N.Y., swimming pool plant.

- Martha M. Alvarez, Houston, \$102,300 for six violations for failing to provide fall protection at three Wisconsin job sites. ● ●