

AUGUST 2018

SAFETYZONE MAGAZINE

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“S” is
Safety

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NSC – BOOTH #1339 **VPPPA SHOW #543**

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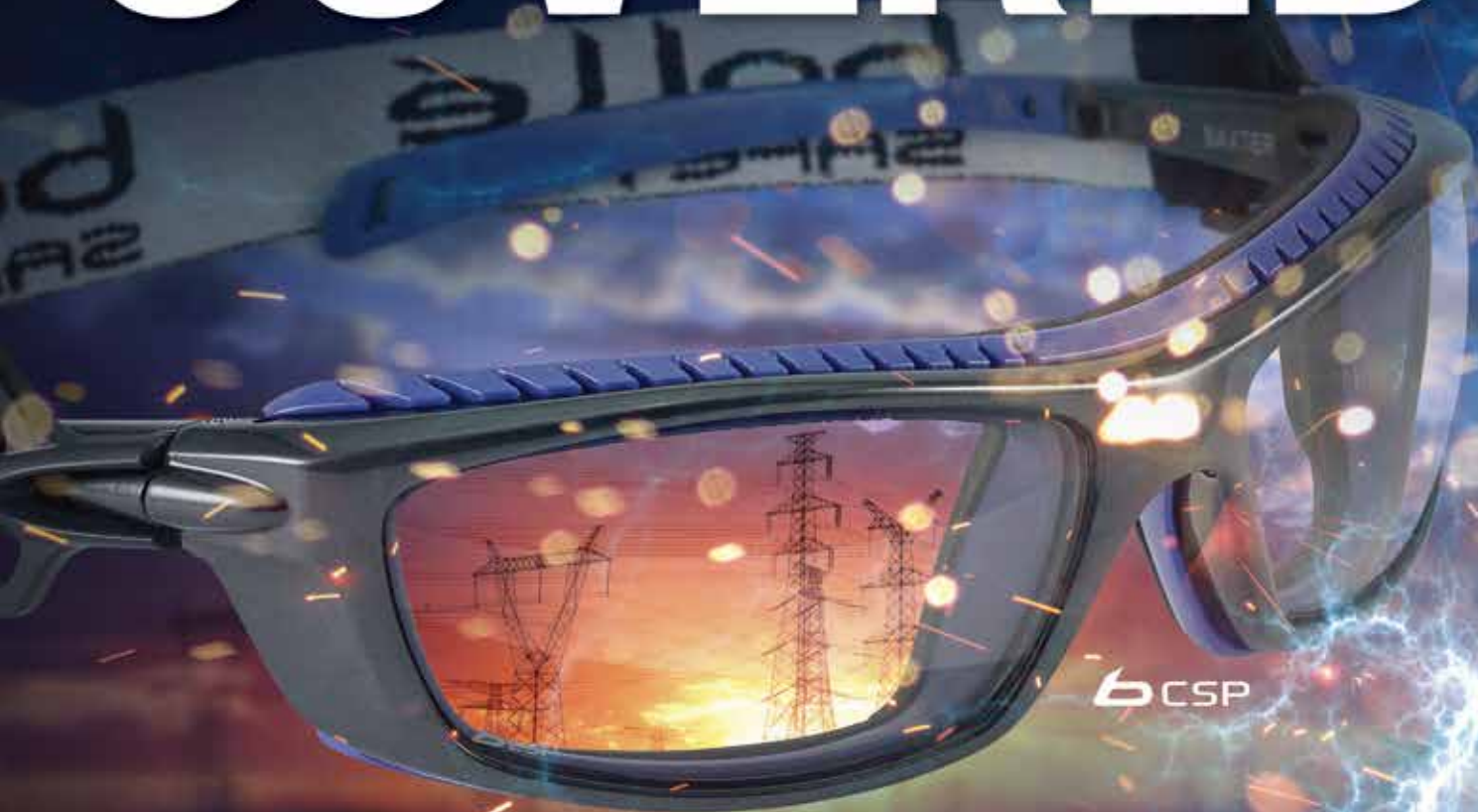
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UniFlow Laboratory Fume Hoods are the most complete line of fume hoods in the industry. UniFlow AireStream low flow high performance fume hoods feature an exclusive all composite resin construction that is chemical resistant, flame retardant, lightweight, and meets UL 1805, SEFA 1, ASHRAE 110, and ANSI Z9.5 standards. These hoods have a molded one piece seamless composite resin interior fume chamber that has all coved corners and is white for superior light reflectivity. Available in sizes from 30" to 96" wide and in depths of 24" to 48", and in CAV (air bypass) or VAV (restricted bypass) models. A wide selection of accessories and services are optional to meet exact user requirements.

Other HEMCO UniFlow Fume Hoods are engineered and built for specialty applications such as perchloric acid that has

either a type 316 stainless steel or PVC welded one piece interior fume chamber including worksurface and rear drain trough, acid digestion that has an HDPE welded one piece interior fume chamber including worksurface and optional rear drain trough, radio-isotope that has a type 304 stainless steel welded one piece interior fume chamber including worksurface, and trace metals that has a polypropylene welded one piece interior fume chamber including the worksurface. Each of these fume hoods would still have the composite resin exterior superstructure in lieu of traditional painted steel.

Support base cabinets, heavy duty tables and epoxy resin, phenolic resin or stainless steel dished worksurfaces are offered to complete the UniFlow fume hood installation. Additional lab furniture can be designed with the fume hoods including sinks, faucets, wall cabinets to complete the laboratory.

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*Skin Cancer - Source: National Cancer Institute (NCI) **Source - <https://www.cdc.gov/media/releases/2016/s0601-zika-diseases-and-conditions.html>

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Industrial Applications Emergency Drench Shower Booth unit is equipped with pull rod activated overhead drench shower & rear wall mounted eye/face wash. **Cat No. 16601**

Laboratory Applications Emergency Drench Shower Booth same specs as above except with finished exterior side panels. **Cat No. 16604**



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UniMax Floor Mount Hood's are constructed of chemical resistant, non-conductive modular panels featuring composite resin surface material. This modular design allows for onsite assembly and the ability to disassemble at a later date, move and reassemble. Custom sizes and designs can also be designed and built to exact specifications.

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At STE, we incorporate new concepts and technology throughout our projects with 3D BIM, finite element analysis, fabrication drawings and a plethora of services. Fueled by a forward thinking team, STE serves a superior client base with innovative industry solutions.

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Guard-Safe Guarding

Five Easy Steps to Successful Machine Guarding!



Identify the Hazards

Not all hazards are created equal. Nor are the solutions for guarding them. Keep in mind the basic principle: Over, Under, Around or Through. If any body part is capable of reaching a moving component by those means, it must be guarded. The example to the left shows an exposed rotating shaft and a fan that present a hazard to employees.



Scanning & Measurements

Set up an appointment with Guard-Safe Guarding to visit your facility and review your goals and primary objectives regarding your hazards. GSG will perform their own safety assessment to assist you in this process. GSG will photograph and measure the application. Some applications may require Laser Scanning to capture interferences and assist us in the design stage. The shaft/fan hazard from above was scanned by GSG, as shown here.

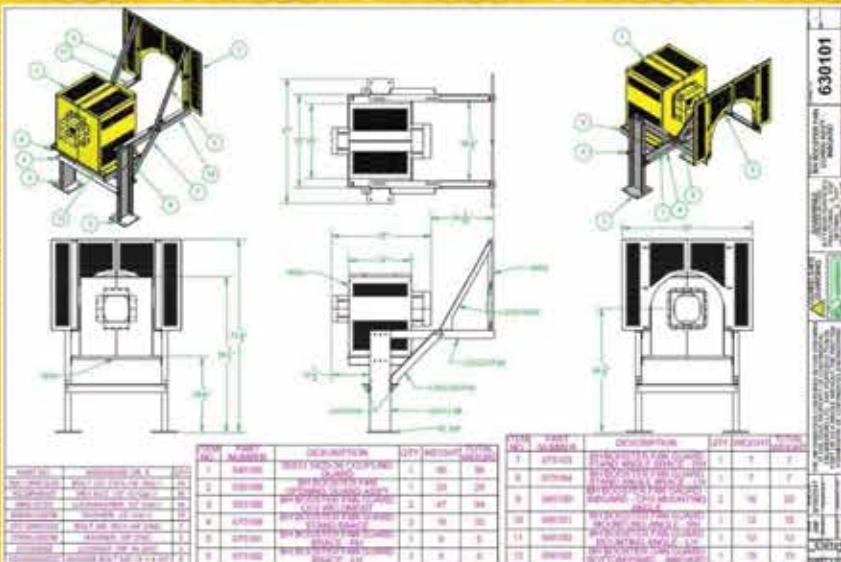


Designing your Guards

Upon processing the Laser Scan, GSG utilizes 3D CAD software to model the new guards and supporting structures. For simpler applications, the model is created based upon site measurements. A 3D CAD image is created and shared with our clients. The client is then able to visualize the final product, ask questions, and provide feedback regarding accessibility, or other concerns.

Engineering Drawings

Upon approval from the client of the initial concept model from above, GSG proceeds to create complete fabrication, arrangement and installation drawings. The drawings are once again submitted to the client for final approval prior to fabrication and shipment. O&M Manuals & drawings are provided for the client in electronic pdf format and paper format.



Installation

Guard-Safe Guarding powder coats all guards Safety Yellow. GSG preassembles the parts prior to shipping to ensure proper fit and delivers the guards assembled as much as possible to save time at installation. All guards are carefully packaged and shipped in a wooden box. It is recommended that a GSG technician be present during the installation process. All guards must be mounted rigid and secure.



At Guard-Safe Guarding we know that you care about your employees. We understand that guarding your equipment is not a simple or glamorous proposition. Guard-Safe Guarding is well prepared to answer your guarding questions. Typical concerns we hear are from Safety Managers looking for guidance, Maintenance personnel wanting easy access & removal of protective barriers, and from operators wanting to work safely, yet unencumbered. We have heard and addressed all of your concerns with our innovative and time saving products.

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risk programs?



Topic	Question ID	Question	Answer
OFFICE: ALARM SYSTEMS	OFF-130.1.US	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.136(a)(2) 29 CFR 1910.136	As employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the workplace or perform actions identified in the EPP/SAP.
OFFICE: ALARM SYSTEMS	OFF-130.1.US	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.136(b)(4)	Employee alarm systems must be tested at least annually for reliability and adequacy.

G. AUDIT QUESTIONS

Date: _____

Facility: _____

Auditor: _____

Question ID	Audit Questions	Auditor Guidance And Notes-Audit Questions	Y E S	N O	N A	Comments
ERGONOMICS						
OFF-146.1.U.S	1. Are workstations configured so that employees can achieve ergonomically correct working postures?	Workstations should be configured to prevent common ergonomic problems. The computer keyboard and mouse should be within easy reach and at a comfortable height (elbow high), the keyboard and monitor should be aligned, and the screen should be at or slightly below eye level. There have been no issues.				
OFF-140.2.U.S	2. Are chairs used at workstations adjustable and in good condition?	Chairs so that employees can work in a comfortable seated position, with good body support. Chair height should allow feet to rest flat on the ground with thighs parallel to the				

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Your Total Guarding Solutions Company

MACHINE GUARDING ASSESSMENTS

What is a Machine Guarding Assessment? An assessment is an evaluation of the machinery in a facility to identify hazards that may cause physical harm to personnel working on or near equipment.

The Assessment Process:

- ❖ Guard-Safe Guarding will arrange a convenient time to visit your facility.
- ❖ It is recommended that the client provide us with a list of equipment, complete with identification names/numbers that are to be inspected.
- ❖ We will meet with your Safety Committee and share our knowledge of machine safety guarding, provide useful advice and discuss the operation of the equipment we will be evaluating.
- ❖ Perform a physical inspection of the equipment and area around the equipment.
- ❖ During the inspection process we will be photographing, measuring and possibly performing a laser scan of the machine.
- ❖ Questions. We ask a lot of questions to the operators and maintenance personnel to gain a firm understanding of what operations are performed on and around the equipment. A guard that is not user friendly is often modified or discarded leaving the operator at risk and the employer vulnerable. We strive to make our guards purposeful and convenient for operators and inspections.

Follow Up:

- ❖ Guard-Safe Guarding will provide a report detailing the hazards that were identified complete with regulatory references.
- ❖ The report will contain our recommended actions & designs for correcting the hazards.
- ❖ We will also send you a proposal to provide the required guarding.
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The Sixth “S” is Safety

As lean manufacturers add a 6th S to the 5S process to emphasize safety, customizable signs and identification labeling that stick securely yet remove cleanly can help to optimize the workspace

From the manufacturing floor to the warehouse, the 5S process of organizing the workspace to efficiently achieve consistent quality output is one of the foundational principles of lean manufacturing.

With each S (Sort, Set in order, Shine, Standardize, and Sustain) accounting for a separate stage of the 5S approach, now a 6th S – Safety – is being integrated into the process. This emphasis is helping to ensure that safety is fully and consistently practiced, and new options in safety signs and labeling are helping to further optimize the process.

“In 6S programs, signs play a key role in safeguarding the workplace and enhancing productivity by highlighting best practices and preventing or reducing accidents and injuries,” says Tina Huff, Group Product Manager at Avery Products Corporation, a commercial and industrial label manufacturer. “Such signs also play a vital role in keeping employees properly trained and staying OSHA or ANSI compliant.”

Utilizing safety and identification labels on a variety of workspaces and production/warehouse equipment can be essential to establishing the safest operating instructions, procedures, processes, checklists and scheduling. The right label can make a big difference, and using one not designed for the job at hand can create problems down the road.

6S Fundamentals

Site supervisors and warehouse managers familiar with the 5S process will appreciate how the 6S approach reinforces safety throughout all of the previous stages.

Furthermore, new safety labeling options are now making it easier to print and post signs all over the facility, even when unique situations arise. As such, whenever information must be changed or updated, labeling that sticks securely yet removes

cleanly can help to optimize the ongoing, iterative 6S process, particularly in terms of safety.

Sort

The first 6S stage, Sort, removes clutter and unneeded items from the work area. This leaves just the parts, tools, and machines necessary for daily use on the manufacturing or warehouse floor.

Labels can be used in this stage to roughly sort and identify items that are used less frequently, which may be moved to an alternate location for occasional access, as needed.

Set in order

The second stage, Set in order, locates parts, people, tools, and equipment in the most efficient, ergonomic positions, so operators do not waste time or effort searching for needed items. Utilizing labels, along with tool shadow boards, and other visual identifiers can help to ensure that everything necessary on the manufacturing floor or in the warehouse is properly placed and ready to use.

“To improve workplace efficiency, sign and identification labels can be integrated to clearly identify and classify parts, tools, and equipment,” says Huff. “The goal is to make things easy to find, so everything has a home.”

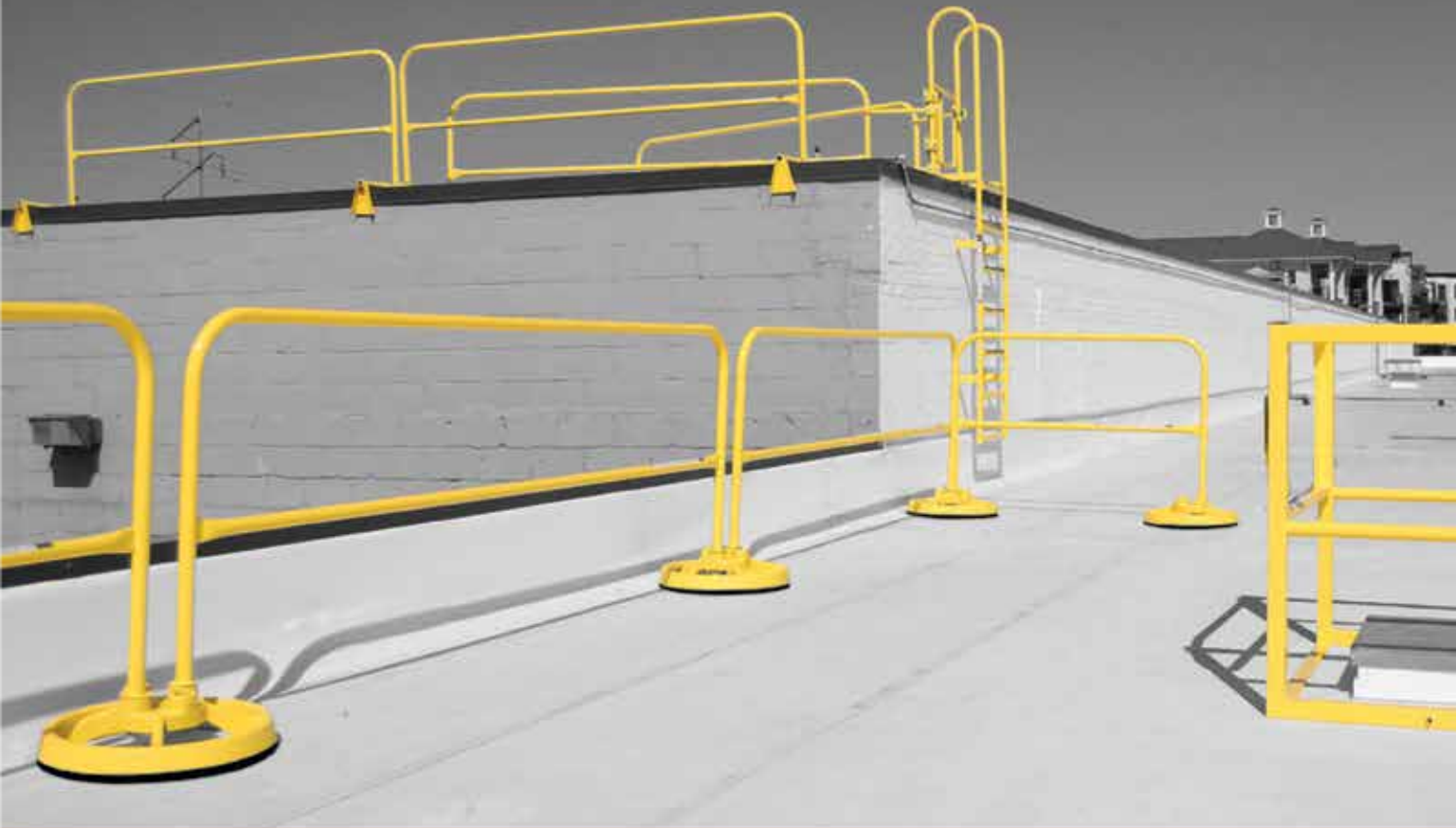
Shine

The third stage, Shine, ensures the workplace stays free of clutter, grime, and malfunction to prevent more serious work breakdowns or slow downs. In this process, cleaning as well as inspecting through cleaning is critical. However, insufficiently durable labels can become torn or otherwise unreadable, which is a particular problem with barcode labels.



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"To reliably perform through the Shine stage, it is important to use labels that are designed to withstand daily wear/tear, dirt, grease, oil, chemicals, and wash downs while providing good barcode readability," says Huff.

Standardize

The fourth stage is standardization, which systematizes the most efficient work methods with clear standards. Utilizing schedules, checklists, and standard operating procedures are a key part of this process.

"Placing sign labels on walls or equipment in the work area is a good way to increase their visibility," says Huff. "This can provide a recurrent reminder of standard operating procedures to employees, so no one can say 'I didn't see it.'"

Sustain

The fifth stage trains and maintains the company's standards until they become a habit for everyone involved. Posting sign and identification labels as close as possible to the actual work being done can be an important way to reinforce these standards until they are consistently followed.

"Constant reminders to employees in the form of sign labels will help to sustain the 6S principles they need to follow," says Huff. "Because research shows that people don't 'see' signs after awhile, regularly updating the signs can help to refocus employee attention and behavior."

Safety – The Sixth S

In 6S, safety is emphasized in every aspect of the lean manufacturing process. This ranges from plant logistics to equipment positioning/operation to the correct handling of parts/product to the wearing of safety gear.

In warehouses, accurate labeling to properly identify changing inventories of parts in bins, totes, racks, shelving, or returnable containers can also enhance safety and efficiency. By improving barcode readability and inventory accuracy, this can minimize the need for employees to look for product, which reduces forklift and employee traffic on the warehouse floor.

Because 6S is a continuous process, a highly involved organization will reorganize or improve its processes throughout the year, as well as accommodate inevitable changes in data, format, and safety regulation.

As such, easily removing old labels and printing custom,

updated ones can be a vital issue. Otherwise, employees can waste time scraping old labels off, using hair dryers, or even razor blades. They may be reluctant to update labels if it is difficult to get the old ones off, so may make do with sub-standard situations.

The ideal solution would be signage and labels that are easy to install, durable enough to endure harsh conditions, yet comes off easily when necessary, leaving no trace.

"Industrial labels used as signage or for warehouse part/product identification must be more durable than those used in an office, but also should remove cleanly when they need to come down," says Huff. "For us, the key to accomplishing this was developing an adhesive that holds well but can be removed when needed. Achieving that balance is harder than it sounds."

As the result of this effort, new Avery has developed an exclusive and proprietary range of Surface Safe labels for specific applications that deliver the benefit of durability plus clean removal from surfaces, without damage. Surface Safe Sign Labels are specially engineered to stick securely yet remove cleanly without damage or residue from painted walls, doors, glass and metal.

Surface Safe ID Labels, on the other hand, are made specifically for warehouse environments, function similarly when applied and cleanly removed from a wide variety of warehouse surfaces including metal racks, shelves and cabinets, and all major brands of distribution totes and bins.

These "labels used as signs or warehouse identification" are made of durable, industrial-grade material that resists water, chemicals and even abrasion. Available in a variety of sizes, they print easily on standard laser or inkjet printers, opening a world of possibilities for custom, do-it-yourself signs and warehouse labels.

Unlike standard office labels with a paper substrate, the topcoat of these industrial labels is waterproof and chemical resistant, while its polyester substrate is a durable, scuff and tear-resistant film.

These qualities are ideal for safety-related signage and warehouse labeling, as mandated by regulation or required by company policy.

For instance, facility managers and safety officers or engineers will want signs compliant with OSHA 1910.145 (Specifications for Accident Prevention Signs and Tags) and ANSI Z535.4 (Product Safety Signs and Labels).



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Although standardized safety signs can be purchased out of catalogues, there is often a need to modify or customize mandated signage as conditions or formats change.

On-demand printing solutions have traditionally required a large upfront investment of thousands of dollars, including a specialized sign and label printer, software, labels, and ribbons.

In response, industry innovators such as Avery Products Corporation have developed a simplified, flexible approach using standard laser and ink jet printers. The company's free online Design and Print Software enables customizable printing utilizing OSHA/ANSI compliant templates, as well as 5S/6S templates.

Employees can create and print their own informal, official, or compliant labels from pre-designed templates or create them step-by-step on demand at their desk. Most employees find the



process intuitive, since it resembles creating an office document from pre-designed templates.

To accommodate warehouse settings, the software's barcode generator makes it easy to add text, graphics, serialized numbers or barcodes in a few steps.

The combination of a bright white label material with superior ink/toner anchorage further enables accurate barcode scanning, even at extended distances.

With all the signage and part labels used throughout manufacturing and warehouse settings, the ability to conveniently print new sign and/or warehouse identification labels in minutes, while being able to cleanly remove the old, will go a long way toward keeping these facilities safely up to date without the hassle, mess or cost.

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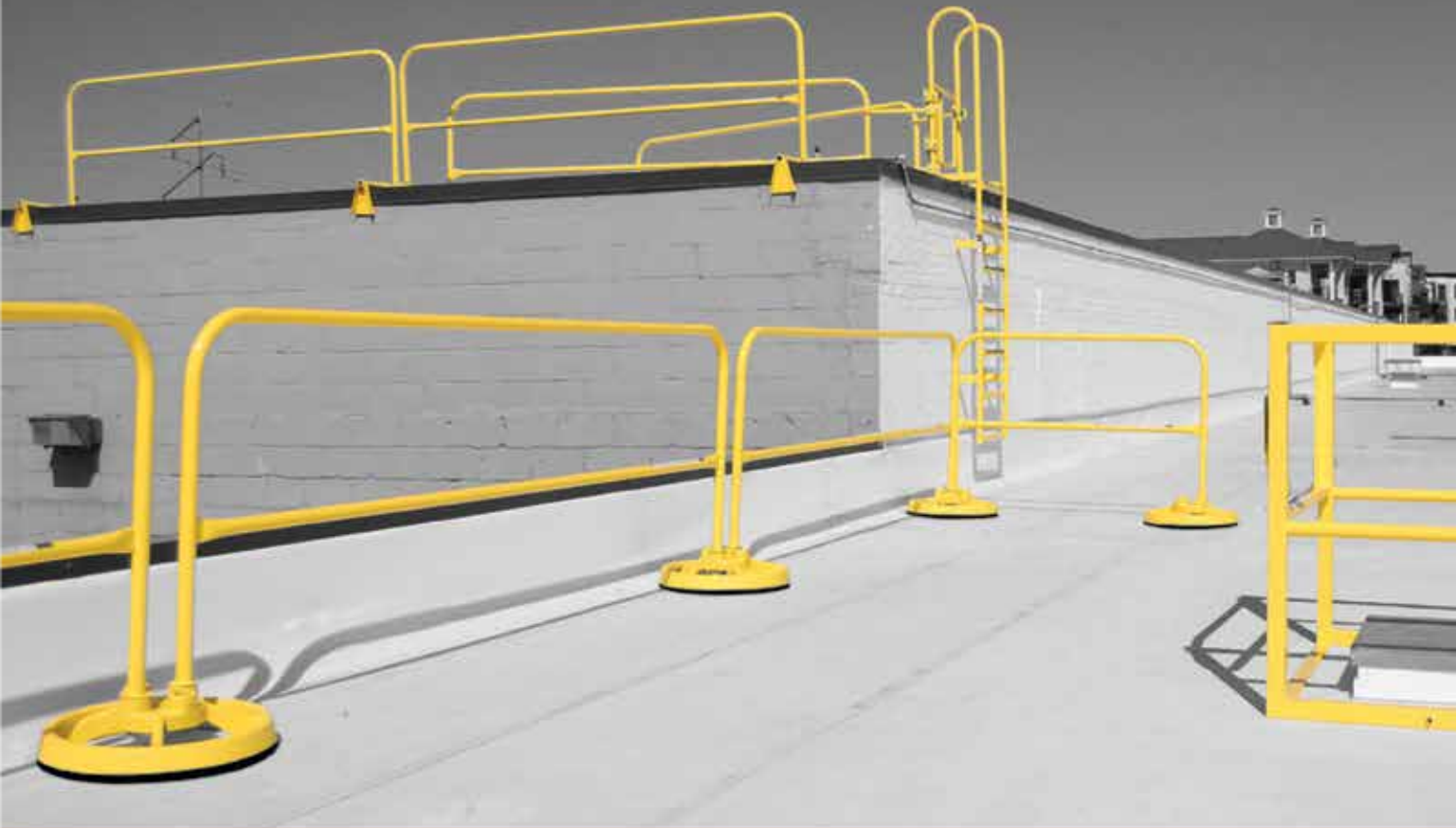
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Revised Ambient Air Monitoring Quality Assurance Requirements

ABSTRACT

The revised air monitoring quality assurance requirements are EPA's first comprehensive changes to the air monitoring rules since 2006. These changes formalize many changes that had been informally adopted by Agency memorandum and guidance documents. Many of the changes were driven by improved monitoring technology—such as continuous particulate matter analyzers—that were not commonly available at the time of the previous update.

The revised rules also revert to the pre-2006 structure whereby state and federal monitoring program requirements are set out in Appendix A, with industrial PSD monitoring requirements specified in Appendix B. EPA provides a summary of the changes at the following URL:

https://www3.epa.gov/tttrm612/files/ambient/pm25/Summary_of_Appendix_A_Changes_102025_2016.pdf

ARTICLE

Key Changes

The revised regulation once again separates the quality assurance requirements applicable to state and federal monitoring programs from those for industrial PSD monitoring. This change recognizes the many differences in the objectives and implementation approach between the state and industrial monitoring programs. Other significant items include:

- Increased emphasis on the role and responsibilities of the Primary Quality Assurance Organization (PQAO)
- Requirement that EPA be provided a courtesy copy of an organization's Quality Assurance Project Plan (QAPP), even if that PQAO has been delegated QAPP review authority by EPA.
- Clarification of the applicable system and performance audits and required frequency for each type of monitoring program
- Updated calibration and audit ranges for gaseous analyzers

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