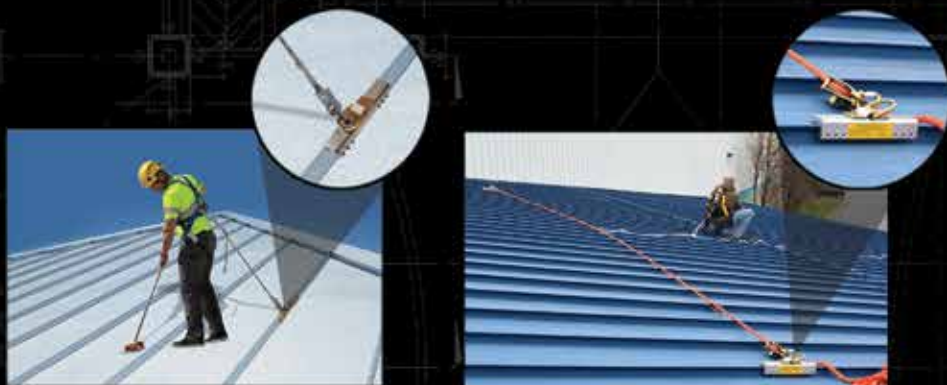


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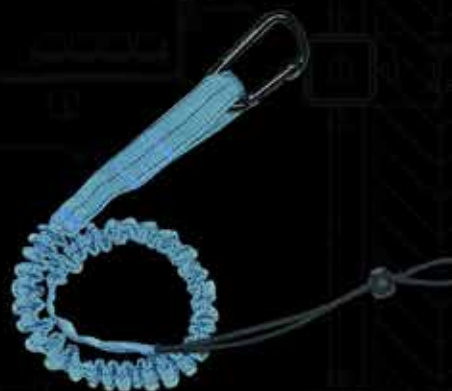


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2	OFFICE: ALARM SYSTEMS OFF-130.1.U.S	1. Does the facility have an employee alarm system? Cite: 29 CFR 1910.39(a); 29 CFR 1910.155	An employer must have and maintain an employee alarm system that is able to be heard, seen, or otherwise perceived by everyone in the workplace. The employee alarm system must be distinctive and recognized by all employees as a signal to evacuate the work area or perform actions identified in the ERP/SAP.
3	OFFICE: ALARM SYSTEMS OFF-130.2.U.S	2. Is the employee alarm system tested annually? Cite: 29 CFR 1910.155(b)(6)	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-140.1.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 knee should be under the chair.				
OFF-140.2.U.S	2. Are chairs used at workstations adjustable and in good condition?	Chairs should be 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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- PG 4** Mobile Dust Suppression Design Features Tier IV Final Gen Set
- PG 10** New Products from Hemco
- PG 16** Complying with the EPA's Hazardous Waste Generator Improvements Final Rule
- PG 24** Company Profile: Safety Through Engineering
- PG 26** Guard-Safe Guarding: Five Easy Steps to Successful Machine Guarding!
- PG 30** Company Profile: Jesco Industries, Inc.
- PG 36** Ad Index

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The Piranha Safety Tool Caddy is a highly flexible, mobile and rugged tool storage and management system made of rust free heavy duty ABS plastic. The tool management system can mount to virtually any solid surface using the patented Piranha Lox surface mount.

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MOBILE DUST SUPPRESSION D TIER IV FINAL GEN SET



DESIGN FEATURES



A global innovator in dust and odor control technology has updated its family of self-powered dust suppression equipment with Tier IV Final-compliant generators, ensuring compliance in all 50 states. BossTek made the announcement with the debut of the new DustBoss® DB-60 Fusion™, a field-proven suppression system driven by a high-reliability 25 HP electric motor and paired with a gen set powered by a heavy-duty 4-cycle indirect injection diesel engine. Designed, engineered and assembled in the USA, the generator features a dual-containment fuel cell, heavy gauge lockable enclosure and oversized brushless alternator for easy starting.

Permanently mounted on a rugged road-worthy trailer, the company's Fusion lineup is proving to be a popular and effective means of delivering versatile, mobile dust suppression technology to sites that lack a readily available power source. The company expects to unveil two other Fusion models in early 2019, giving customers the ability to select the size and coverage range needed to best suit their operations.

The new generator series is designed with sound attenuation for excellent noise reduction and a multi-voltage switch with utility power outlet in all voltage modes. The digital engine / generator controller is equipped with single button stop / start and an 80-gallon fuel capacity, giving the units a run time of more than 24 hours at a prime rating of 45 kVa. Like its previous Fusion systems, BossTek warrants the DB-60 Fusion for three years / 3,000 hours, with 5-year / 5,000 coverage on the electric motor and a 2-year / 2,000 hour warranty on the generator.

What Tier IV Means

Tier 4 refers to the latest emission milestone established by the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB). The regulations apply to new engines found in off-road equipment, including construction, mining and agricultural equipment, as well as marine vessels, locomotives and stationary engines used in industrial and power generation applications.



lar stainless steel manifold with 30 atomizing spray nozzles, then launches millions of tiny droplets with a powerful fan that produces 30,000 CFM (849.50 CMM) of air flow. Atomized mist droplets of 50 to 200 microns in size are thrown out in a 200 foot (60 meter) cone at an adjustable 0 to 50° elevation angle, capturing airborne dust particles and dragging them to the ground. Unlike industrial sprinklers used for the same purpose, which can require hundreds of gallons of water per minute, the DB-60 only uses about 23 GPM (87 LPM) to help avoid pooling or runoff.

A touch screen panel for controlling the dust suppression unit is encased in a NEMA 3R cabinet, allowing operators to control oscillation, booster pump, fan and water. The cabinet is constructed for outdoor use, designed to provide protection against solid foreign objects (such as dirt), air (dust, emissions), water (rain, sleet, snow) and ice formation. The system provides valuable mobility and versatility in one of the most popular and effective dust suppression designs on the market, able to deliver up to 62,800 square feet (5,834 square meters) of coverage.

"Maintaining air quality is essential for communities near a demolition project, mining operation or other bulk material handling activities, but even in places with little infrastruc-

Tier IV-compliant engines are designed to significantly reduce emissions of particulate matter (PM) and oxides of nitrogen (NOx) to near zero levels. Relative to previous emissions standards, Tier IV-compliant engines reduce emissions by over 95 percent for most agricultural and construction equipment and just over 86 percent for much larger applications such as locomotives and marine vessels. The Tier 4 emission standards are roughly similar to emission reduction requirements for engines that power heavy-duty trucks.

How It Works

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ture, dust can choke worksites and foul equipment,” said Project Engineer Jason Lesch. “We engineered the Fusion to be highly mobile, with its own power source, so it can be easily towed anywhere on a job site.”

Equipped with an in-line 75 mesh, 200 micron filter, the unit can be specified with special filtration to accommodate non-potable water sources. In addition, the new design can be optimized with a Variable Frequency Drive (VFD) to precisely adjust fan speed. An optional dosing pump is available for precise metering of additives to enhance particle control even further.

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A blue metal drum, likely for hazardous waste, is the central focus. A white label with red and black text and symbols is affixed to its side. The label includes the words "HAZARDOUS WASTE" in large red letters, an accumulation start date of "1/1/19", and EPA waste codes. It also features a diamond-shaped hazard pictogram with a flame and an exclamation mark. Below this, it says "HANDLE WITH CARE!" and lists properties: "FLAMMABLE" (checked), "CORROSIVE", "TOXIC", and "REACTIVE". At the bottom, it identifies the contents as "Acetone" and "MEK". A gloved hand is visible on the right, holding a yellow tool with a red knob. The background is slightly blurred, showing industrial equipment.

Complying with the EPA's Hazardous Waste Generator Improvements Final Rule

Generators must indicate the hazards of hazardous contents, but have flexibility in doing so

To enhance safety and environmental protection, the EPA's Hazardous Waste Generator Improvements Final Rule, which became effective federally last year, requires identification including the words "Hazardous Waste," a description of the container's hazards, and the date the accumulation started on each container.

Previous Resource Conservation and Recovery Act (RCRA) program labeling regulations did not require waste generators to identify the hazards of waste accumulated in containers, tanks, drip pads and containment buildings. This resulted in a failure to communicate risks associated with wastes being accumulated or stored in different locations, which could put workers, waste handlers, emergency responders and visitors at serious risk.



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To resolve this issue, the Final Rule stipulates that container and tank labels must now indicate the hazards of such containers' contents in numerous affected areas. These include areas for waste generator satellite or central accumulation; transfer facilities consolidating hazardous wastes from different generators; and generator container/tank storage areas at treatment, storage, and disposal facilities.

Fortunately, the Final Rule allows ample flexibility in how to comply with this new provision.

For drip pad and containment buildings, the generator can keep this information in logs or records near the accumulation unit.

Waste generators can indicate the hazards of the container's contents using any of several established methods such as DOT hazard communication, OSHA hazard statement or pictogram, NFPA chemical hazard label, or RCRA characteristic.

Examples of how to indicate the hazards include (but are not limited to):

- The words of the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic);
- Hazard communication consistent with the DOT requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding);
- A hazard statement or pictogram consistent with the OSHA Hazard Communication Standard at 29 CFR section 1910.1200
- A chemical hazard label consistent with the NFPA code 704.

According to the EPA, the Final Rule provides waste generators some economic and environmental benefits. For example, it provides flexibility to very small quantity generators (VSQGs) that generate 100 kilograms or less of hazardous waste per month to ship their waste to a large quantity generator (LQG) under the control of the same company.

The Final Rule also addresses episodic generation of hazardous waste. This occurs when a non-routine event, such as a product recall, results in a smaller generator – a VSQG or small quantity generator (SQG) – generating an atypical amount of hazardous waste in one month, triggering more stringent generator regulations. Under the Final Rule, a generator can maintain its usual generator category during a non-routine event and avoid the increased requirements of a higher generator status.

The RCRA waste codes must be placed on the

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containers before shipping hazardous waste off site to a RCRA permitted treatment, storage and disposal facility, but do not need to be applied before that time.

An electronic system, such as a bar code system, is acceptable as long as the RCRA waste code(s) are tied to the specific container.

States not authorized for the RCRA program like Alaska and Iowa are currently required to comply. RCRA authorized states will be required to adopt the more stringent portions of this final rule by July 1, 2018. If a state law must be changed for adoption then the deadline is July 1, 2019.

Labeling Options for EPA Hazardous Waste Generator Compliance

While indicating the hazards of the container's contents in various permissible ways, hazardous waste generator labels must also be very durable and remain attached to the container.

So when it comes to printing EPA Hazardous Waste Generator compliant labels, one of the easiest ways to become compliant is for companies to use their existing printers along with appropriate printing software.

For the many chemical manufacturers, distributors, and end users that are already complying with Globally Harmonized System" (GHS) labels for OSHA, this means using GHS labels along with software that utilizes new hazardous waste specific templates.

As an example, companies can use UltraDuty GHS Labels by Avery, a leading label brand in the industrial and office markets. Unlike typical labels, these GHS



labels are industrial-grade labels designed to be chemical resistant, tear resistant, abrasion resistant, and constructed with a marine-grade adhesive that is waterproof and passes a 90-day seawater submersion adhesion test.

Using the company's Design & Print Online Software, available at www.avery.com/ghs, allows employees to create, customize, and print their own hazardous waste labels at their desk from pre-designed, EPA compliant, templates. Most employees find such a process intuitive, since it resembles creating an office document from pre-designed templates.



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Printed labels with handwritten (Accumulation Start Date, EPA Waste Codes) or marked hazardous properties (flammable, corrosive, toxic, reactive; along with GHS pictograms) are also acceptable with the Final Rule.

One example of this approach, are pre-printed write-on Hazardous Waste Accumulation Labels by Avery (available in October) that comply with EPA's new Hazardous Waste Generator Improvement Rule.

The pre-printed labels allow easy selection of the applicable GHS pictograms or hazardous properties along with accumulation start data and content composition.

These help to simplify proper labeling and are compatible with ball point pens and permanent markers.

The labels are waterproof and resistant to chemicals, abrasion, tearing, UV, and their permanent adhesive passes a 90-day salt-water immersion test.

Such labels can work for a variety of hazardous waste generators including VSQG, SQG, LQG, as well as sub-part K (Academic Laboratories).

[See example of a hand writable Avery Hazardous Waste Label that complies with the new rule].

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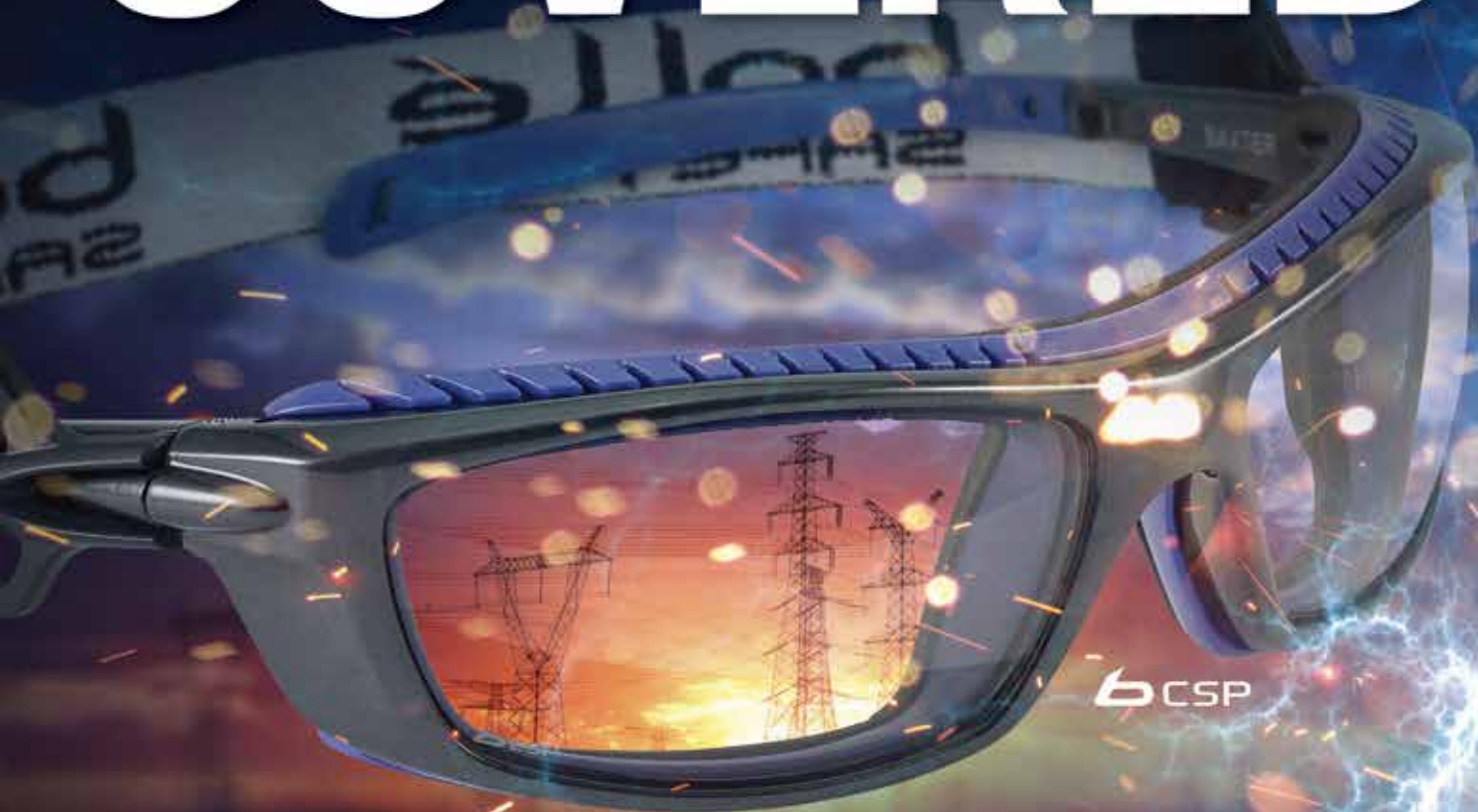
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Identify the Hazards

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.



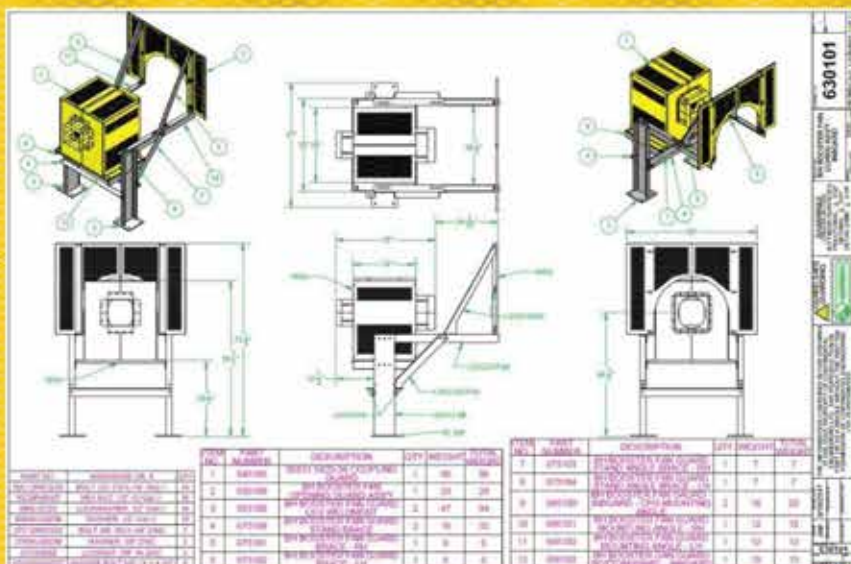
Scanning & Measurements

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.

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