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10 Easy Tips to Increase Warehouse Safety

**Advanced Fire Detection
System Fine-Tunes
Sensitivity to Distinguish
Smoke from Hazy
Background Air**



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PG 4	Advanced Fire Detection System Fine-Tunes Sensitivity to Distinguish Smoke from Hazy Background Air
PG 10	10 Easy Tips to Increase Warehouse Safety
PG 16	Ad Index



Pg 10

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PRESIDENT

Glen Hobson
205-441-5591
glen@handfmedia.net

DIRECTOR OF ADVERTISING

Jake Dimenna
205-624-2182
jake@handfmedia.net

DIRECTOR OF BUSINESS

Butch Cole
205-624-2180
butch@handfmedia.net

ADMINISTRATIVE DIRECTOR

Steven Hobson
steven@handfmedia.net

EDITOR

Brandon Greenhill
brandon@handfmedia.net

CREATIVE/ WEB DIRECTOR

Jacklyn Greenhill
jacklyn@handfmedia.net

P.O. Box 1568 • Pelham, AL 35124
Phone: 205-441-5591 • Fax: 205-624-2185
www.safetyzonemagazine.com
info@safetyzonemagazine.com

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Specialized early smoke detection methods are necessary in areas with high atmospheric levels of background smoke and particulates that cause traditional devices to fail and false alarm.

Meat processing is the largest industry group in food and beverage manufacturing—based on sales, value added, and employment, with 26.2 percent of sales in 2021, according to the USDA ERS - Food and Beverage Manufacturing.

In recent years, however, there have been many documented fire incidents at meat processing plants across the globe, costing millions of dollars in damages in the United States alone. The causes can be quite varied, from electrical malfunction, equipment failure, and overheating machinery to the combustion of animal fats, oils, and other flammable materials. In the event of a fire, the meat processing plant can suffer costly, lengthy production downtime and often cannot reopen for an extended period due to extensive property damage and remediation measures.

Unfortunately, processors that butcher and package meat face unique fire protection challenges due to the nature of the working environment. These factors – namely the presence of smoke, steam, dust, particulates, oil, and water vapor – result not only from the butchering, rendering, and packaging of high-fat content animal proteins, but also from lubricants and hydraulic oil droplets, exhaust, and regular sanitary washdowns. This environmental “haze” wreaks havoc on standard smoke detectors, often causing them to fail, alarm excessively, or require excessive maintenance.

“The challenge is finding a means to quickly and accurately distinguish between smoke from an actual fire and the typical airborne particulates in the background during meat processing,” says Jim Deakin, a fire alarm engineering

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technologist at API Systems Integrators, which provides complete life safety systems and is part of Western States Fire Protection.

Now, proactive meat processors are utilizing and tailoring industrial-grade fire protection systems such as VESDA, to maintain efficient operations with minimal false alarms and maintenance.

Implementing VESDA systems, the sensitivity of the fire detection equipment can be fine-tuned to reliably distinguish between smoke from an actual fire and other factors regularly found in the background air. This not only increases the safety of personnel but also protects the plant, production equipment, inventory, and other assets while facilitating fire safety compliance.

Resolving a Smoke Detection Challenge

When a meat processing plant in the U.S. sought to add reliable smoke detectors to three refrigerated vacuum pump rooms at the request of its fire insurance company, it faced a difficult task. In the three rooms, pumps used to vacuum seal meat products for distribution were creating an environmental hazard.

“The exhaust was intermingling with water vapor from washdowns in a manner that could hinder the operation of traditional fire detection devices. In addition, there was a visible accumulation of lubricant residue on nearby surfaces near the vacuum exhaust,” says Deakin. “It was clear that traditional smoke detectors would not function properly in this environment.”

To minimize potential losses due to unwanted alarms and provide the best possible long-term detection

system, Deakin proposed a solution that involved installing two complementary VESDA smoke detection systems from Honeywell in each room, in what would be a performance-based application.

As an International Code Council (ICC) accepted alternative, performance-based design allows “alternate materials and methods” that offer equivalent or superior fire safety performance. With this approach, processors can consider a design acceptable if the fire engineering analysis demonstrates that it meets the measurable performance criteria set at the start of the process.

The risk insurer and meat processor sought a fire detection system that was fully compliant with NFPA 61-Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities.

“One VESDA system [the VLI] will provide an atmospheric reference in each vacuum pump room, minimizing unwanted alarms. A second VESDA system [the VLI] will determine when smoke contamination from a fire exceeds the atmospheric reference and then activate the building’s fire alarm,” says Khaleel Rehman, director of development for the advanced detection team at Honeywell.

According to Rehman, a VESDA VLI system utilizes a piping network to draw in air from the protected area to a central location, which facilitates smoke detector reliability and reduces potential contamination.

With more detailed information to analyze, installers can program the unit to differentiate smoke from other factors that could cause disruptive false alarms. In meat processing plants, airborne dust and particles may be present which can confuse some systems that incorrectly register them as smoke. In response, the unit’s dust rejection and data analytics minimize nuisance alarms by at least three times, compared to similar technologies.

The detector’s high-sensitivity chambers and cumulative sampling can deliver one of the earliest possible fire warnings. The detector combines an intelligent filter with an advanced clean-air barrier for optics protection, providing a long detection chamber life without the need for recalibration.

In the second layer of VESDA smoke detection, a VLI unit integrates in an interdependent, cross-zone fashion with the VLI. With this configuration, the VLI determines when smoke contamination from a fire exceeds the initial atmospheric reference. When it does, the unit activates the fire alarm system. The VLI is designed to provide consistent performance throughout its service

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life, with a technology that uses a clean air barrier to keep its optical detection chamber components clean.

In addition, a user-initiated feature helps to prevent nuisance alarms by introducing clean air into the detection chamber and taking a reference reading of the chamber background. This reading is then offset against the actual environmental background to maintain consistent, absolute smoke detection.

Used together, the two VESDA smoke detection systems enable meat processors to set alarm thresholds above specific site background contamination levels as a further safeguard against nuisance alarms.

"To improve reliability, we implemented performance-based system design and testing because the background smoke and obscuration levels were continually high. Once the level of sensitivity is set, the system can automatically accommodate for almost any environmental condition," says Rehman.

After Deakin provided a log of the system's action alerts in the room with the vacuum pumps, Rehman compared these with the background levels of smoke and particulates obscuration, and manually adjusted the alarm sensitivity to compensate. The system's "auto

learn mode" now provides the ability to periodically adjust alarm sensitivity as needed.

"To mitigate fire risk and minimize false alarms, we deployed a meticulously engineered solution capable of discriminating between the smoke from an actual fire and the typical airborne oil and smoke particulates in the background. To assist in the process, this meat packing plant has three S3 Gamewell FCI Fire Alarm Panels – non-networked and connected to a VESDA Detector for 24/7 monitoring purposes," says Deakin of API Systems Integrators.

"Most of the VESDA units are now set for a level of obscuration of approximately 6%, which is almost double the level that typical smoke detectors can tolerate. Most other traditional technology would have an excessive number of nuisance alarms at those levels of obscuration," adds Deakin.

To further enhance smoke detector reliability, Honeywell is providing a pipe cleaning system designed to blow air and debris out of the VESDA piping network and sample ports. The system minimizes any potential contamination inside the sampling network.

According to Rehman, after successful testing and installation, the fire insurance company that originally initiated the project was happy with the results. With the integrated VESDA smoke detection, the plant is also on track to significantly improve its fire safety for many years to come.

"Although the dual layer VESDA smoke detection system was used in a meat processor's refrigerated vacuum pump rooms in this application, the same approach can be used in many other areas that can be prone to fire risk, atmospheric particulates, and false alarms," concludes Rehman.

For more information, contact Dawn Wotapka, Director of External Communications at Honeywell, 715 Peachtree Street, N.E., Atlanta, GA 30308; email: dawn.wotapka@honeywell.com .

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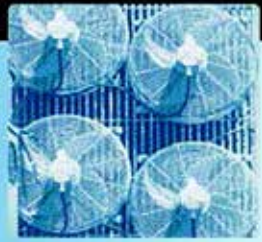


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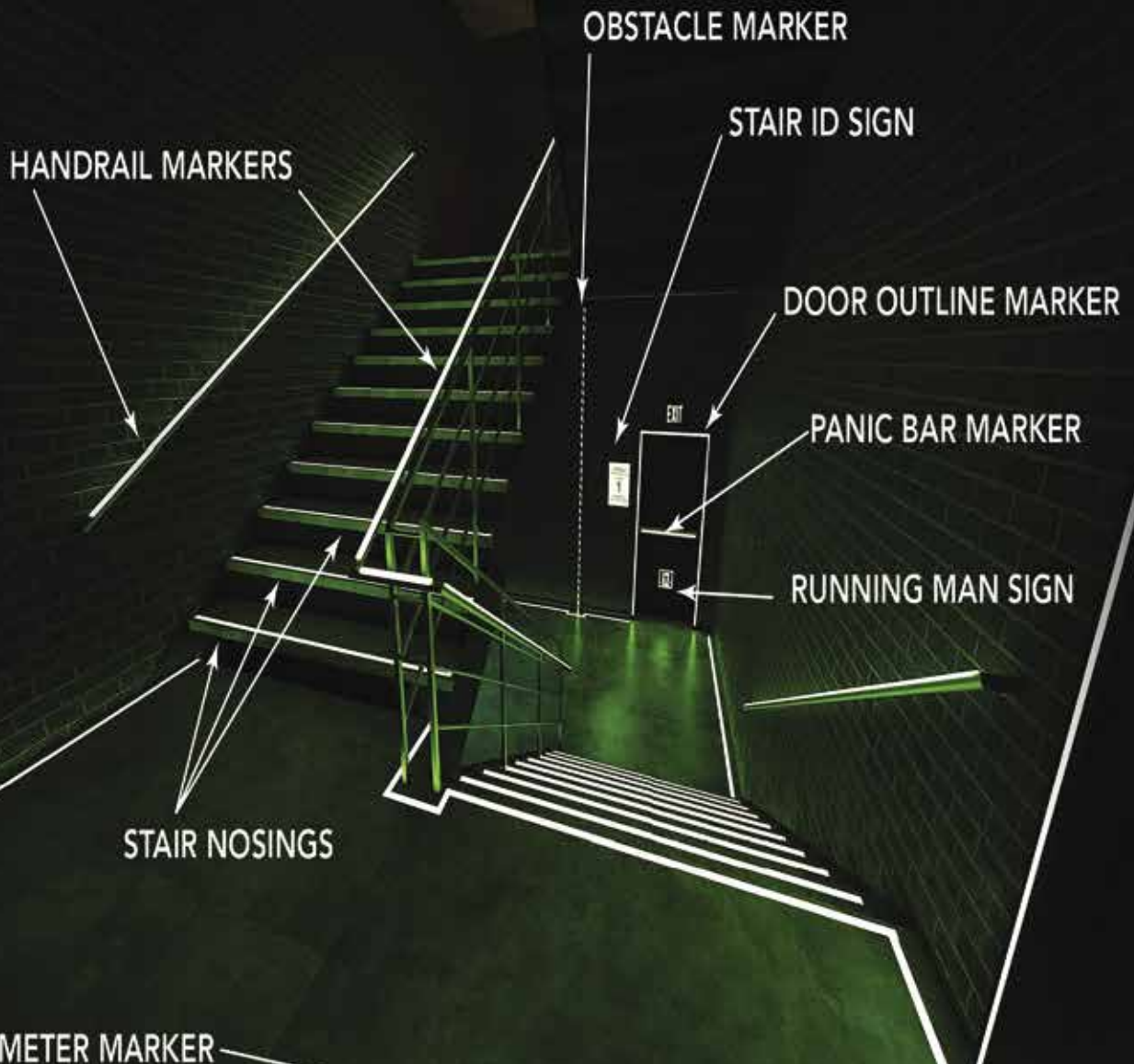
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10 Easy Tips to Increase Warehouse Safety



By Del Williams

An industry expert outlines some of the quickest, most cost-effective ways to improve warehouse safety without investing in all new rack

Insufficient safety measures in warehouse and distribution centers can have severe repercussions, including injuries, operational downtime, product losses, property damages, and potential legal actions. Of particular concern are accidents involving collisions between forklifts or other vehicles and employees or visitors.

Within busy operations, it is quite possible that a forklift or other vehicle will eventually run into the rack. While the rack may not require immediate replacement, storage capacity and product throughput may be compromised for some time. If overloaded, or loaded incorrectly, a rack can also collapse, spilling the inventory to the ground. Employees and visitors must also be protected from vehicle traffic.

Fortunately, a well thought out rack safety program can prevent many accidents and reduce downtime, rack replacement, liability, and other costs.

"As in life, prevention is the best cure. Rather than investing in all new racking, today it is easy to use a wide range of cost-effective safety products to protect warehouse workers, products, and property," says Jim Augustyniak, a regional sales manager at Steel King Industries, a designer and manufacturer of warehouse storage racks, pallet racks and material handling/safety products since 1970.

To be effective, the ideal warehouse rack safety plan includes several key elements to minimize the risks of accidents and injuries. While the specific elements of a rack safety program will be unique to each facility and operation, most comprehensive programs include several commonalities.

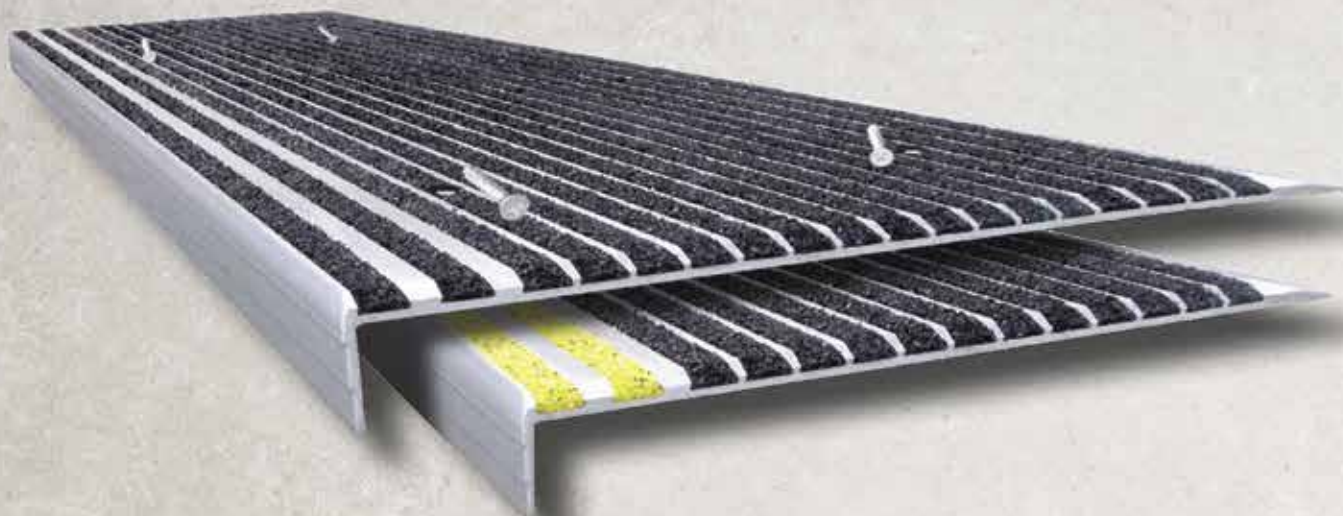
Augustyniak offers the following 10 Tips for improving safety, which can be implemented separately or together

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1) Clearly define and protect walkways and work areas around racking

Lines painted on the floor can be helpful in promoting separation of vehicles and pedestrians. However, when no physical barrier is provided, forklifts and other vehicles can cross over to the pedestrian side for reasons such as operator inattention/distraction or insufficient training.

A more comprehensive solution is to establish visual and physical barriers in the form of guardrails.

“Steel guardrails can keep pedestrians in defined walkways and vehicles along predetermined routes with protective barriers maintaining separation,” says Augustyniak.

For heavy duty protection, three-ribbed guardrail like Steel Guard is designed to withstand impacts from forklifts and other vehicles commonly operated in warehouses and distribution centers. The guardrail can be installed with a single rail or a double rail that offers a 42-inch-high barrier.

An Armor Guard, a medium-duty guardrail, is an effective and cost-efficient solution for safeguarding workers from light shop traffic. This high-quality guardrail features two ribs and offers the flexibility to be installed at a single or triple rail height.

2) Protect equipment with guardrail and safety gates
Guardrails can be used to protect mezzanines/platforms, conveyor systems, machinery, mechanicals, electrical panels, building features, and offices situated amid material handling or manufacturing operations.

“Lift-out/drop-in rails for guardrail systems can provide protection for equipment, while allowing easy access if required,” says Augustyniak.

He adds that when frequent access is needed, durable safety gates can be utilized. For greater flexibility of use, it is a good idea to use safety gates designed to accommodate an easy change in the swing direction of the gate. For added safety, sturdy steel springs should automatically close the gate after use.

3) Protect rack from forklift damage in high traffic areas
Pallet rack rows can be protected from one of the most likely sources of damage – forklifts – with accessories like Guard Dawg. These guardrails are often installed at intersections and along high traffic routes to protect

the rack that is most likely to be damaged, according to Augustyniak.

“The guardrail is designed to protect both the front and sides of a rack row in one installation,” says Augustyniak. The Guard Dawg sections are anchored to the floor, safeguarding the uprights and standard footplates of the racking.

4) Protect rack columns from structural damage

When forklift operators load and unload product on racking, collisions with an upright can occur that compromise its structural integrity.

To protect against this scenario, safeguard the rack frame and posts with freestanding steel rack protectors. These mount on the floor in front of each upright, typically 12” or 18” high, and are specifically built to protect the most vulnerable part of a rack frame — the base plate and lower leg.

“The protectors are much easier and faster to replace than an entire upright,” says Augustyniak.

5) Use Snap-on solid steel protectors to help deflect impact to the rack

Some of the most common areas of forklift impact occur to the rack face. Snap-on protectors can deflect and absorb some of the impact. The protectors snap into place, attaching to the rack’s teardrop holes, and can be easily removed, reinstalled, or replaced as needed.

6) Rub rails to protect vulnerable surfaces in narrow aisles or high traffic areas

Rub rails are often installed to protect end-of-rack aisles, in-plant offices, and exposed equipment. The upright is protected in two ways. First, the rub rail helps distribute any impact forces to the rear column of the frame. Second, the rub rail prevents the column from twisting when hit. The rails easily bolt on and can be installed at multiple levels for more protection.

7) Protect warehouse inventory from falls and fires

Pallet load stop beams are designed to prevent pallets of product from being accidentally pushed off the back of a rack during loading or unloading, which can occur with certain loads if excessive force is used.

By keeping pallets in the proper position with sufficient clearance, pallet load stop beams also facilitate better fire suppression from overhead sprinklers in the event of a warehouse fire.

“Pallet safety stops create an acceptable opening



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between pallets, which provides sufficient space for water [from above-rack fire suppression sprinklers] to penetrate to the products stored in the racks. Without adequate spacing, there is inadequate fire suppression," says Augustyniak. He notes that the pallet stop units bolt securely to rack uprights, enabling repositioning if the rack load changes.

8) Use load supports to secure non-standard load sizes

For non-standard load sizes, consider using load supports to help keep inventory from falling between the

rack beams that support the product.

"For a more complete approach, you can use welded-wire rack decking or perforated metal decking to protect non-standard loads as well as small items that may come loose from a load," says Augustyniak.

9) Keep loose products from falling off racks with barriers or netting

Loose products can slide, overturn, or topple off a rack. This is especially dangerous where the rack is adjacent to walking aisles or work areas.



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To address this hazard, frame accessories such as flexible woven netting or steel mesh barriers can be attached to the rack system to prevent loads from falling and injuring those below.

10) Train employees to prevent accidents and inspect racking

While the specifics will be unique to each operation, safety training should include instruction on routine rack inspection since some damage will occur over time.

Operators should look for any indication that rack has sustained an impact such as loose connections, sheared or missing anchor bolts, and beams or columns that are twisted or out-of-plumb. When noted, the racking should be promptly repaired, or depending on the severity, clearly marked, and put out-of-service until the damaged components are replaced.

With appropriate training and safety products, warehouse operators will minimize the risk of potentially serious injury and damage. In addition, the warehouse will improve the bottom line by establishing a secure, efficient environment that protects employees, equipment, and inventory for many years to come.

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