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Health, Safety & Security Review

VOLUME 4 | AUTUMN 2018

Middle East

PPE FOCUS:

Meeting regional requirements

INSIDE...

PPE Buyers' Guide

Kuwait Health, Safety & Security Forum

Safe operation of flameproof motors

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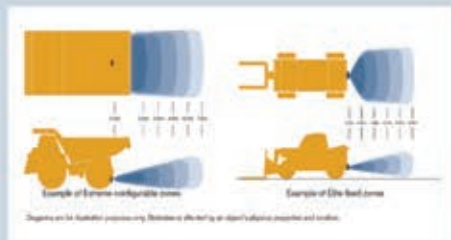
TAG-BASED PROXIMITY WARNING & ALERT SENSOR



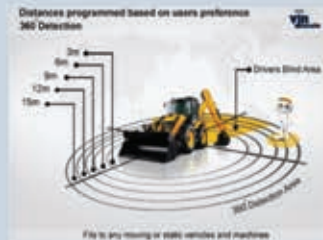
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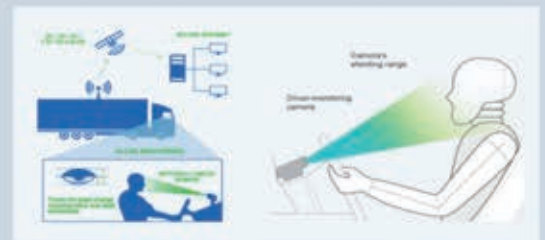
How it works:



RV107 PROXIMITY WARNING SENSOR



TAGBASED PROXIMITY WARNING ALERT SYSTEM



DRIVER FATIGUE MONITOR

Autumn 2018 in this issue...



14

News

Market news 4
Developments from across the HSE industry in the region

Events

Calendar 7
A round-up of industry events worldwide

Kuwait Health, Safety & Security Forum 10
A preview of this debate-driven event held under the patronage of HE the Kuwait Minister of Health

Equipment

PPE for the Middle East market 14
The PPE market in the Middle East and Red Wing Shoes' plans to develop its regional business

Safety

Ending the false alarm nightmare 17
Measures to prevent false fire alarms

Safe operation of flameproof motors 21
Maintenance and inspection of flameproof motors

Innovations

Industry developments 24
The latest health and safety product developments, with a focus on PPE

PPE Buyers' Guide

PPE Equipment 29
A comprehensive guide to Middle East suppliers of PPE equipment

Arabic

News/Analysis 4



24



10



28

editor's note

IN OUR PPE issue, we focus on the latest market trends and product developments in PPE. We report on the latest innovations introduced at recent shows (p24) and bring you a comprehensive guide to Middle East suppliers of PPE equipment in our Buyers' Guide (p29). We also look ahead to our upcoming events in Dubai and Kuwait (ps 6 and 10), which enjoy a high level of support from the UAE and Kuwait governments respectively and will provide a forum for debate on critical health, safety and security issues.

Louise Waters, Editor

Editor: Louise Waters

Email: louise.waters@alaincharles.com

Editorial and Design Team: Prashanth AP, Hiriya Bairu, Miriam Brtkova, Praveen CP, Ebin GheeVarghese, Samantha Payne, Rahul Puthenveedu, Rhonita Patnaik, Deblina Roy

Managing Editor: Georgia Lewis

Magazine Sales Manager: Richard Rozelaar
Tel: +44 20 7834 7676 Fax: +44 20 7973 0076
Email: richard.rozelaar@alaincharles.com

Head Office:

Alain Charles Publishing Ltd, University House,
11-13 Lower Grosvenor Place, London SW1W 0EX, UK
Tel: +44 20 7834 7676, Fax: +44 20 7973 0076

Middle East Regional Office:

Alain Charles Middle East FZ-LLC,
Office L2-112, Loft Office 2, Entrance B,
PO Box 502207, Dubai Media City, UAE
Tel: +971 4 448 9260, Fax: +971 4 448 9261

Production: Srinidhi Chikkars, Eugenia Nelly Mendes,
Infant Prakash and Rakshith Shivakumar
E-mail: production@alaincharles.com

Subscriptions: E-mail: circulation@alaincharles.com

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Dubai hotel holds successful fire drill

FIRE SAFETY

TAMANI Marina Hotel & Hotel Apartments in Dubai has conducted a successful fire drill involving all the hotel's employees, heads of departments and in-house guests. It was held under the leadership of TAMANI Marina Hotel general manager Walid Al-Awa, in co-ordination with Dubai Civil Defense and with the participation of the Dubai Police and Ambulance.

When the fire bell went off, all employees and in-house guests immediately left the main building and headed to the specified designated places, following guidelines from security and safety employees and the different hotel departments through direct contact messages and posters.

At the end of the drill, which lasted 15 minutes, Al-Awa expressed his pleasure on the application of the evacuation, head counts and inspections in record time, indicating the continuous efforts and teamwork among TAMANI Marina Hotel employees to ensure they are in line with the goals on safety and security and take the necessary



The fire drill was held in co-ordination with Dubai Civil Defense

procedures in managing crises.

Al-Awa added, "The safety of our guest and our colleagues in the hotel is a top priority. We conduct fire drills twice a year to intensify safety and training within the property and refresh the memory of all the trained staff to ensure the efficiency of evacuation operations of unlikely emergency events such as fire."

Al-Awa also thanked Dubai Civil Defense for their cooperation and advice on the ground on applying safety and security principles and achieving the evacuation timeframe.

Dubai Civil Defense teams

which were responsible for controlling the public and checking the emergency plans and field operations, expressed their admiration for the fast and accurate response of the hotel team.

Engaging with Dubai's residents to raise fire safety and preventive awareness through exercises such as fire drills is an important part of the activities of Dubai Civil Defense, which has become one of the leading civil defence authorities globally through its innovative processes and procedures as well as the use of disruptive technology.

New survey released

HAZARDOUS INDUSTRIES

A new survey from Petrotechnics reveals the low oil price is impacting operational risk and process safety management in hazardous industries. Insights from more than 100 senior industry leaders globally reveal 72 per cent believe the oil price has had a moderate or significant impact on process safety risk, characterised by major job cuts, loss of corporate memory, cost-cutting and belt-tightening brought on by the downturn.

The good news is 83 per cent of survey respondents agree safety is part of their corporate value structures and is supported by the highest levels of management. However, more than half of industry leaders admit there is resource tension between safety-related projects and other capital allocation. Seventy-five per cent say conflicting priorities are a top reason for shortfalls in scheduled maintenance completion, 72 per cent agreed it was due to limited resources, and another 40 per cent said it was due to limited budget.

Oman Oil Marketing Company launches Road Safety Awareness Village

ROAD SAFETY

Oman Oil Marketing Company, in collaboration with Oman Road Safety Association, has launched a Road Safety Awareness Village at Oman Avenues Mall.

As part of its efforts to spread vehicle safety awareness in local communities, Oman Oil Marketing Company designed a specific programme to educate children on the best road safety policies.

The initiative was launched as one of the

company's 2018 Corporate Social Responsibility programmes.

David Kalife, CEO of Oman Oil Marketing Company, said, "Road Safety is one of our major focus areas when it comes to our operational strategy and at the heart of our community outreach. Our aim is to raise awareness among children and their families on road safety and the importance of seatbelts.

"We are committed to continuously contributing to the sultanate's social

development through creative collaborations with local associations and organisations."

Children were able to drive their own vehicles around a track within the village and receive an Oman Oil Marketing Company's road safety village driving license. They were briefed on road safety in general, emphasising the importance of wearing seat belts, traffic lights, safe driving skills and other traffic rules before driving around the village.

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Enhancing HSE performance

The 4th Annual Health, Safety & Security Forum takes place in Dubai from 27-28 November 2018 under the patronage of the UAE Ministry of Health and Prevention and with the support of the Roads & Transport Authority Dubai, ADNOC, Emirates Authority for Standardization & Metrology and Emirates National Accreditation System.

“I’ve been attending this forum for the past three years and it’s been very fruitful for us because we meet new people and catch up with industry connections under one roof. It has always been a great knowledge-sharing platform”

ATG Gloves, sponsor of the 3rd Annual Health, Safety & Security Forum

Health, safety and security are receiving an increased focus in the UAE, in response to rapidly evolving security threats worldwide, as well as continued growth in the country’s commercial property, financial and tourism sectors. Fire protection also has huge growth potential, with the Middle East fire security market estimated to grow annually by 12.5 per cent from 2012 to 2020, making it one of the largest in the world.

Continuing the highly acclaimed event series, the 4th Annual Health, Safety & Security Forum will bring together HSE practitioners, government regulators, policy makers and solutions providers to share insights and experiences on critical health and safety issues. It will highlight best practices, strategies, process improvements and technology advances for the enhancement of HSE performance in the UAE, as well as endeavouring to align world class principles with local industry requirements.

Key themes this year include occupational health in the era of big data; preventing accidents caused by falling from height; crafting a behavioural change strategy; creating a resilient and productive workforce by investing in employee health; and managing security risks in the oil and gas industry.

Speakers include Raed Al Marzouqi, head of section, Occupational Health and Safety, Dubai Municipality, a stalwart of previous forums, who will speak on preventing accidents caused by falling from height, while Jorge Manuel Miranda Dias, professor, Electrical and Computer, Engineering Department, Khalifa University Abu Dhabi will discuss how to detect abnormal behaviours and human crowd modelling using video.

With numerous studies underlining the business benefits of investing in health and safety, Dr Ola Ahmed Mira, head of Environment & Occupational Health & Safety, Ministry of Health, UAE will

discuss the benefits of investing in employee health to create a productive and resilient workforce.

Farah al-Ansari, head – Airport Security, Dubai Airports will discuss embedding a world class security culture whilst ensuring stakeholder engagement. Also speaking will be Dr Mohammad Aref, OSH expert, Ministry of Human Resources & Emiratization.

A panel comprising Dr Rebab Al Ameri, director – National Accreditation System, Emirates Authority for Standardization & Metrology; Dr Ola Mira, and a senior representative from ADNOC will discuss how to achieve ‘zero incidents’ in onshore and offshore operations.

Harnessing technology will feature strongly at this year’s event. The role of artificial intelligence and robots will be discussed, along with leveraging data technologies and analytics to improve HSE performance. The use of UAVs to inspect hazardous locations, VR as a learning tool and the effective use of wearable technology will also come under scrutiny.

A highlight of the event will be a mock evacuation fire drill to prepare for emergencies, following its successful introduction at previous Forums. Other unique features will be a workshop presented by the Ministry of Health, and an innovation showcase, featuring the latest products and technology.

The 4th Annual Health, Safety & Security Forum will provide a valuable opportunity to obtain an update about the latest HSE developments and regulations in the region, learn about the strategies, technological advancements and best practices for the enhancement of HSE performance, and meet face to face with leading decision-makers from industry and government. ❖

For further information and to register, see the website at www.hse-forum.com.

→ events calendar 2018

| September | | | |
|-----------|---|------------|--|
| 24-25 | Kuwait Health, Safety & Security Forum | KUWAIT | www.hse-forum.com |
| 25-28 | Security Essen | DUSSELDORF | www.security-essen.de |
| October | | | |
| 1-3 | OFSEC | MUSCAT | www.muscat-expo.com/ofsec |
| 2 | International Fire & Safety Standards Summit | MUSCAT | www.ifss-summit.com |
| 22-23 | Gartner Security & Risk Management Summit | DUBAI | www.ifss-summit.com |
| November | | | |
| 12-15 | ADIPEC | ABU DHABI | www.adipec.com |
| 17-19 | MEFSEC | CAIRO | www.mefsec.com |
| 27-28 | 4th Annual Health, Safety & Security Forum | DUBAI | www.hse-forum.com |
| 28-29 | International Security Expo/Disaster Response Expo | LONDON | www.internationalsecurityexpo.com |
| December | | | |
| 3-5 | 8th Algeria Fire, Safety & Security Expo 2018 | ALGIERS | www.new-fields.com |

Readers should verify dates and location with sponsoring organisations, as this information is sometimes subject to change.

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Oman's comprehensive expo for fire, safety and security

Oman Fire, Safety & Security Expo (OFSEC 2018) will address the needs of the region's strongly growing safety and security market.

“Dynamic economic and infrastructure development in Oman and the region has made the Middle East the most vibrant safety and security market in the world”

The event will be a networking platform for the fire, safety and security industries

Taking place from 1-3 October in Muscat, OFSEC 2018 will bring together local and international exhibitors to showcase their latest technologies, cutting edge innovations, cost-effective products and services to meet the requirements of governments and businesses in aviation, construction, infrastructure, transportation, manufacturing, oil and gas and utilities.

Dynamic economic and infrastructure development in Oman and the region has made the Middle East the most vibrant safety and security market in the world, with a growth rate of more than 10 per cent annually since 2012, according to recent research

by G4S. There is a diverse demand for fire, safety and security equipment from both businesses and home-users.

OFSEC is designed to meet the needs of the local, regional and international markets by linking practitioners, suppliers, distributors and manufacturers from the fire, safety and security industry, with key decision makers from the government and private sectors, making it a definitive networking platform, where new projects and partnerships are initiated and visionary objectives are implemented. This event also aims to strengthen the collaboration between the authorities and industry and encourage investment.

The three-day exhibition will attract a large number of exhibitors and representation from more than 30 countries, with a slew of product and service launches, along with trade visitors and potential buyers from the region and beyond.

Organised in cooperation with government bodies, leading industry associations, research partners and specialists, the event will offer a forum to keep abreast of global trends, share best practices, tackle challenges, and explore breakthrough methods for the integration of safety and security technologies. ❖

For further information see www.muscat-expo.com/ofsec.



Spotlight on occupational health

Image Credit: feegraph/Adobe Stock

In the run-up to the Kuwait Health, Safety & Security Forum, expert speakers share their views on promoting occupational health and corporate wellbeing.

Dr Ivan D. Ivanov, team leader – Occupational & Workers’ Health, World Health Organization Headquarters (WHO) with input from Mazen Malkawi, WHO Centre for Environmental Health Activities (CEHA), Amman, Jordan

The World Health Assembly, the annual meeting of the 194 Member States of WHO, stated that the health of workers is an essential prerequisite for productivity and economic development. In the rapidly developing Middle East it is natural to expect policy makers and employers to promote the highest attainable standards of occupational health, in terms of physical, mental and social wellbeing.

The traditional occupational health risks, such as accidents, poor air quality at the workplace, work with substances causing cancer and allergies, musculoskeletal disorders from unergonomic work, noise and vibration, radiation and infections, are still widespread. WHO recently estimated that such risks cause at least 2,500 deaths every year in the six countries of the Gulf Cooperation Council, mostly from cancer, chronic respiratory disease and road traffic injuries. In addition there are new risks, such as long working hours, shift work and sedentary work, and exposure to solar UV. Due to climate change effects, heat waves

and air pollution from dust storms are noticeably increasing in the region. These occupational risks result in burnout and other mental illnesses, cardio vascular diseases and stroke, chronic respiratory diseases and diabetes. Together with cancer, these non-communicable diseases cause the biggest share of premature deaths worldwide. The workplace provides ample opportunities for prevention of non-communicable diseases and for promoting health and wellness.

Role of governments

Governments need to establish a modern regulatory framework for occupational health and ensure it is enforced. An

Middle East governments are increasingly focusing on occupational health and wellbeing

international convention on the promotional framework for occupational safety and health calls upon governments to develop national occupational safety and health programmes and stimulate the provision of occupational health services. It is very important to establish mechanisms for active participation of employers and workers organisations in programmes for occupational health. The World Health Assembly also urged governments to devise national plans of action on workers' health, with the most essential interventions and basic health services for the prevention and control of occupational and work-related diseases and injuries. It is, therefore, important that national programmes for universal health coverage also address the specific health needs of working people, for example the workplace risk assessment, detection and reporting of occupational diseases and injuries and health surveillance of workers.

In order to prevent and control non-communicable diseases, the UN General Assembly called upon governments to work with the private sector to encourage healthy behaviours among workers, in particular through occupational health and safety measures, smoke-free workplaces, workplace wellness programmes and provision of comprehensive health coverage. Governments should also walk the talk and lead by example by providing decent working conditions and high levels of occupational health and safety protections in all public workplaces. In the Middle East there are particular challenges for governance of occupational health and safety arising from

poor coordination and collaboration between the different stakeholders and unclear role of the health sector in some countries.

Leadership is key

Leadership and commitment of all levels of managers is the key to good occupational health and safety performance. There has to be in place a system for managing occupational health and safety in an enterprise, which includes the regular risk assessment, taking measures to reducing the risks, and assessing the effectiveness of controls.

Workers and managers should collaborate in managing occupational health and safety. A good occupational health culture is a culture of prevention, a corporate culture that stimulates the anticipation of occupational health risks early in the design of buildings, technological processes, equipment and work organisation. A preventative culture also requires that there is constant alert about risks, that the effectiveness of the risks controls is regularly assessed and measures are then to eliminate completely the hazard or reduce the levels of risks. Preventive culture is also a blame-free culture. Workers and managers should feel free to report any incidents or exposures they believe to be hazardous to health without fear of reprimand.

WHO is working with its 194 Member States to improve the way health systems address the health needs of workers, for example by improving the governance of workers' health through developing and implementing national plan of action, strengthening the institutional capacities through the global network of 50 WHO

collaborating centres for occupational health, through working with countries to increase the coverage of workers with interventions and health services for prevention of occupational diseases. In 2014 WHO organised an international consultation on workers' health coverage in Semnan, Iran, which developed a set of recommendations for rapidly scaling up the health coverage of workers in the Middle East as part of the national policies and programmes for universal health coverage. http://www.who.int/occupational_health/en/

Sajed Al-Abdali, medical department leader, EQUATE Petrochemical Company

Although many companies claim that they are aware of the importance and benefits of actively promoting worker health and wellbeing, very few take serious actions on that level. Most companies limit their initiatives and activities to whatever the working regulations require, and never go beyond. Corporate wellbeing, as a philosophy, is much bigger than that. Corporate wellbeing should be part of the strategy of the company rather than scattered activities here and there.

The main challenge is the acceptance and adoption of the Higher Management for occupational health and corporate wellbeing. Without such high-level support, all the activities in that sense will be incomplete and threatened to be stopped at any point in time. Successful occupational health and corporate wellbeing programmes are those which are part of the corporate strategy. Leadership commitment and

support can communicate the purpose and processes of the workplace health and safety programme to all levels of the organisation.

EQUATE has Health and Safety as part of the strategy of the company, which means that all programmes and initiatives are fully supported and monitored by the High Management. EQUATE follows the highest international and national Health and Safety standards. All these measures are audited regularly internally and externally to ensure 100 per cent compliance. Moreover, EQUATE has a multidimensional Corporate Wellness Program that covers all aspects of health. The company looks at health in much a broader sense than the simple physical aspects.

The best method for knowledge transfer is through shared experiences. We learn from failure and success stories much more than we learn from textbooks. The Kuwait Health, Safety & Security Forum is a great opportunity for sharing knowledge and expertise. This will enrich the health and safety field and will surely contribute to raising standards.

The Kuwait Health, Safety & Security Forum takes place from 24-25 September at the JW Marriott Kuwait Hotel under the patronage of His Excellency Dr Basel Hamoud Hamad Al-Sabah, Minister of Health Kuwait. It will provide a platform for the sharing of ideas and expertise on critical issues ranging from worker wellbeing and process safety to crisis management and industrial fire safety. ♦

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PPE for the **Middle East market**

Tito Warren, vice president for global sales and operations at Red Wing Shoes, discusses the PPE market in the Middle East and the company's plans to develop its business in the region.

“Crews should be outfitted with PPE that has undergone rigorous, independent and third-party laboratory testing to ensure it meets or exceeds safety standards and can handle the toughest conditions”

The safety director should select the appropriate workwear to reflect the job and the environment



Image Credit: Red Wing

What are the main factors to be taken into account when selecting safety workwear?

Education around PPE – personal protective equipment – is essential to ensure worker safety on the job. This means not only educating health and safety executives on various safety features required in unique work environments, but also individuals who wear the PPE every day about the overall importance of their safety

footwear and garments and the importance of wearing them correctly.

Of course, safety directors' primary factor in selecting protective workwear is choosing gear that achieves optimum levels of quality and performance to keep employees safe and productive on the job. It is critical that the safety director selects the appropriate workwear that reflects the job being performed and the environment that the

worker and the workwear will be subjected to. Crews should be outfitted with PPE that has undergone rigorous, independent and third-party laboratory testing to ensure it meets or exceeds safety standards and can handle the toughest conditions. It is also smart to look for generous warranty coverage to compliment purpose-built PPE, a strong indicator of manufacturer confidence in product quality.

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How do you view the Middle East market for personal protective equipment? Are there any particular requirements that are specific to the region?

Most companies in the Middle East energy industry place developing a culture of safety as a top priority, making it a strong market for our PPE offerings. This is why Red Wing began doing business in the region in 1968, and we anticipate a continuing trend of robust demand for purpose-built, industry leading products. These products must reflect attention to working environment from the jobs being performed to the natural conditions that can be some of the most demanding in the world. In the Middle East, heat stress can be one of the most challenging issues to address and can only be done with outstanding design and technologically advanced fabrics.

The Middle East tends to follow both ASTM and EN ISO standards for safety, and all Red Wing products sold in the region meet, if not exceed, these standards, making them compliant for use by work crews globally. Our testing takes into consideration the harsh environmental conditions that workers encounter on the job such as high winds, dust storms and blistering heat. Our head-to-toe PPE delivers ultimate protection and meets the needs of specific environmental conditions without sacrificing comfort.

Are there any noteworthy trends in demand that you are seeing or products that are proving particularly popular in the region?

Safety features and performance



Workers in the Middle East have to contend with harsh environmental conditions

always come first, but comfort and style have emerged as key factors in selecting PPE. Even with proper training, some workers will avoid wearing gear they consider uncomfortable or unattractive, despite this putting them in harm's way. In the Middle East, temperatures can soar in remote, arid locations where oilfields are. We design products for such environments, and we are increasingly incorporating advanced technologies in our product designs to make work garments and boots more lightweight, breathable, cool and comfortable. These multi-functional textiles successfully appeal to workers' wear preferences.

One popular product is the new Red Wing PetroKing line of work boots. Available in 16 styles that incorporate some of the most advanced safety features to-date, including 360-degree impact protection, these also remain extremely lightweight, flexible, comfortable and durable. The boots are EN ISO and ASTM

safety compliant for use by oil and gas crews across the Middle East and globally. Similarly, our FlashGuard™ fabric blends cotton, tencel, modacrylic and aramid fibres to create one of the lightest, most breathable fabrics while still meeting safety and performance standards with a Hazard Risk Category 2 arc rating.

Can you tell us a bit about your business in the Middle East and how you sell and market your products? What are your plans to develop your business in the region?

Red Wing has operated in the Middle East for more than 50 years, consistently serving as a committed member of the Middle East energy industry. While we design, test and manufacture our products, we have established longstanding, deep-rooted distributor partnerships throughout the region to help us fit workers with our innovative safety footwear and PPE. Last year, we celebrated the 50th anniversary of our partnership with Tamimi

Commercial, which included signing a joint memorandum of understanding for a shared business vision to realise in-country workwear manufacturing in Saudi Arabia. Al Masaood Oil & Gas (MOISS) is another example of a company we've collaborated with for decades to distribute and service our key customers throughout the UAE.

Along with our partner network, we have a full-service sales and support office located in Dubai and a distribution and customisation hub located in the Jebel Ali Free Zone. This range of capability ensures timely delivery and responsive service to our customers throughout the Middle East, Africa and South East Asia. We personalise service by employing local experts that guide customers through PPE options, along with deploying regional support teams to resolve any product concerns locally to minimise downtime.

In addition, we are also expanding the number of retail stores where consumers can directly engage with and experience the Red Wing brand. These stores carry our full PPE offering including purpose-built footwear, flame-resistant workwear, safety glasses, gloves and other PPE. In 2018, Red Wing opened a new store in Dubai adding to our presence in the UAE (Abu Dhabi) and will soon open a new store in Bahrain. This will add to our existing retail footprint in the Middle East with stores in Saudi Arabia, Oman and Kuwait. Our view of the future for the Middle East is very bright, especially the energy industry, and we will continue to invest heavily in the region. ♦

Image Credit: Michale Coghlan/Adobe Stock

Ending the false alarm nightmare

Advanced, a leading fire systems provider, offers some advice on measures to prevent false alarms.

"Most nights, the fire alarm goes off after midnight in the building where I live. It rings for about 20 minutes before security switches it off. This has been happening for almost three years. The alarm has never yet been the result of a real fire, but I fear the day when it is. Everyone's become so complacent now that I worry no one will react when an emergency does happen – and there will be very serious consequences."

The day-to-day experience of this Dubai resident is common across many parts of the UAE.

The frequent occurrence of false fire alarms is undermining people's trust in fire alarm systems, altering their behaviour towards the signals that are designed to protect them, and putting lives at unnecessary risk.

A renewed focus on fire safety – spurred by high profile fires in recent years and the 2017 update to the 'UAE Fire and Life Safety Code of Practice' – is very timely in addressing false alarm-related issues.

What can be done to reduce false alarms?

Repeated false alarms have far-

reaching costs. Not only do they risk lives by causing complacency and delaying response to real alarms, they also waste the time and resources of the fire and rescue services and cause disruption to business. As ever with complex problems, the solution lies in many areas. It's a question of carefully assessing all the risks of false alarms in a specific setting, then putting the most appropriate measures in place to address them.

A vital piece in the false alarm management jigsaw – whether in domestic, public, commercial or industrial settings – is

"A vital piece in the false alarm management jigsaw – whether in domestic, public, commercial or industrial settings – is education."

- | | | |
|--------------------------|-------------------------|-------------------------|
| ✓ Faults | ✓ Steam | ✓ Artificial smoke |
| ✓ Dust | ✓ Aerosols | ✓ Hot works |
| ✓ Cooking | ✓ Water ingress | ✓ Sprinkler maintenance |
| ✓ Toasters | ✓ Malicious activations | ✓ Contractor activity |
| ✓ Smoking | ✓ No access to premises | ✓ System maintenance |
| ✓ Weekly testing | ✓ Call point misuse | |
| ✓ Accidental activations | | |

Most common causes of fire alarms

education. Ensuring that those who use and maintain buildings understand the central role they play in preventing false alarms can go a long way to reducing their occurrence. Indeed, spreading 'fire safety and preventive awareness across society' is a key objective of the UAE's new Fire and Life Safety Code of Practice.

The causes of false alarms are various, ranging from electrical faults, accidental activation and system maintenance to dust, smoking and cooking. Although some can't be prevented completely, such as malicious activations, call point misuse or activations with good intent (i.e. when someone genuinely thinks a fire is breaking out), many are easy to avoid with some simple, preventative steps.

If people are clearly told about the kinds of activity that will lead to false alarms when they first come to use a building (e.g. smoking near or under detectors, keeping bathroom doors open when there are high levels of steam in the room, or leaving food grilling until it smokes), many incidents can be avoided altogether.

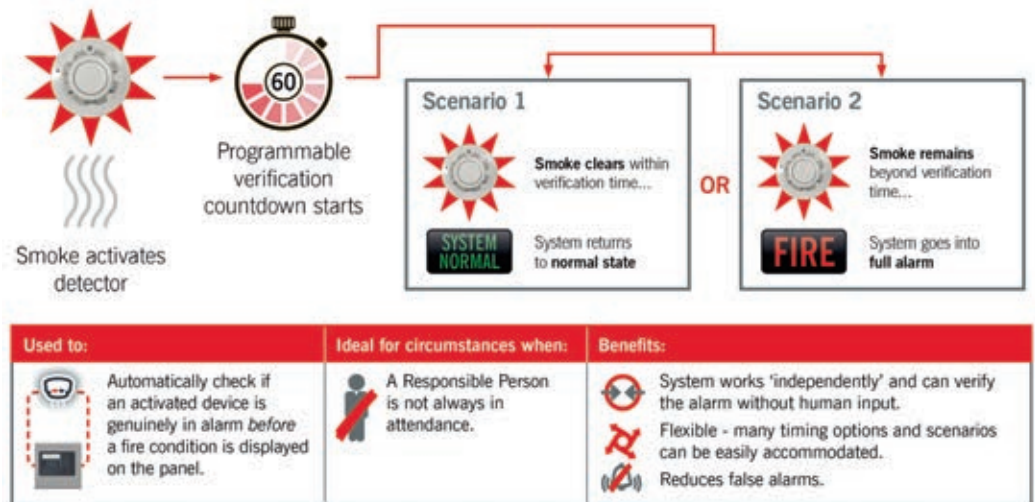
Allied to this is the need for building owners to make clear who building occupants can/should contact in cases where false alarms persist.

Careful design and planning of the fire system

A thorough and detailed fire risk assessment is essential for specifying a fire system that can cope with all the demands that will be placed upon it. To achieve effective false alarm management, a system needs to offer high levels of control and configurability.

There are two fundamental

Figure 1



aspects to the technology facilitating false alarm management. The detectors, which help screen false signals in the detector heads, and the fire panel, which analyses the signals received from sensors and interprets this information to determine if the fire signal is real or not.

Many forward-looking manufacturers, including Advanced, are combining these technologies to great effect.

Detector technologies

Detectors are becoming increasingly sophisticated and can detect and analyse a higher number of signals from more on-board sensors than ever before. The latest models use smart algorithms to distinguish real fires from false signals caused by steam or cooking smoke, for example. Some also have operating modes designed for particular areas or likely fire types. Many detectors now also offer improved physical protection from environmental pollutants and dust/insect ingress.

Panel power

However, the real power of any

fire system comes from combining detector data with an intelligent fire panel. At a basic level, this allows individual detectors to be used in combination or in different modes to help prevent false alarm incidents. For example, multi-sensor detectors can be switched between heat and smoke modes to confirm a signal.

Modern addressable panels can match detector signals with sophisticated cause-and-effect programming, bringing a range of verification and investigation delay options into play that can significantly reduce false alarms.

AlarmCalm from Advanced uses 'building areas' to give users optimal flexibility in how false alarm management is configured. These virtual areas by default match fire zones, but can be specified independently to cover multiple zones and points, or individual points per panel. Each building area can have entirely independent false alarm management strategies, or can be grouped and share common settings.

Verification delays

Verification delays postpone the operation of certain outputs before the fire condition displays on the panel. For example, you can set a verification delay, which allows the system to automatically check if an activated device is genuinely in alarm before a fire condition is displayed on the panel. (See Figure 1.)

Investigation delays

Investigation delays postpone the operation of certain outputs after the fire condition displays on the panel.

For example, during the hours when a building is staffed, you can set an investigation delay to trigger a pre-programmed countdown when a detector is activated. This gives staff time to attend the area in question and check if the alarm's cause is reason to evacuate.

If the detector activation is false, you can reset the panel and avoid unnecessary evacuation. If a fire has caused the activation, you can immediately halt the delay and put the system into full alarm to initiate evacuation. (See Figure 2)

The technology within panels means they can also work with loop devices to facilitate easier maintenance, indicate levels of detector contamination and allow remote monitoring of device status and faults.

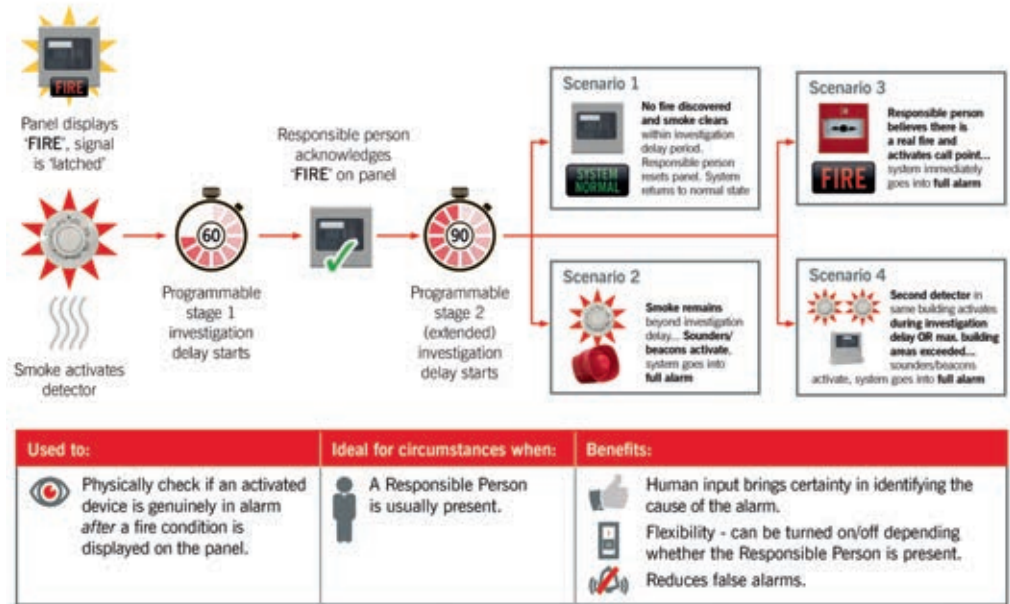
People power

A well-designed system can achieve a great deal automatically, or with very minimal human input. However, in recent years some manufacturers have developed dedicated false alarm input devices which allow building occupants to help in-alarm verification, which can be very effective.

Taking the form of restricted repeaters or loop devices (Advanced's is called the AlarmCalm button), these allow trained residents or staff to acknowledge an alarm in a particular room/area and start a pre-programmed verification delay. If the signal clears before the end of the verification period, then the system resets. However, if the signal persists beyond the verification time, the next stage is implemented, usually a full fire alarm.

The best versions of these devices also have robust failsafes so they do not allow a fire signal to be delayed beyond the pre-

Figure 2



programmed period, and they can only be used once before a system reset. They must also be configured to meet relevant local standards.

What to look out for when choosing a false alarm management system

When assessing whether a system will be capable of reliable false alarm management for your site, it is vital to check how wide the system's range of false alarm management options are. Ideally, your chosen system will be easy

to use and configure so that it is economical to install and doesn't involve lengthy training to achieve.

It should give you maximum flexibility to set up false alarm management by zone, loop or 'building area' so that you can create a customised system that meets a particular building's needs.

It should be easy to modify after installation as few buildings have fixed uses and new requirements emerge over time.

Finally, it is worth investing in a system that can be remotely

monitored and controlled.

In summary, there is no single solution for achieving optimal false alarm reduction. However, there has never been a better time to be tackling this universal issue. The sheer range and versatility of the false alarm technology now available is a dream for specifiers and installers, and promises an end to our false alarm nightmares. ✦

For further information see the website at <https://uk.advancedco.com/>

Kentec showcases life-critical control systems

FIRE SAFETY

Kentec is showcasing its market-leading, life-critical control systems at Security Essen, with its next generation Taktis 16 loop analogue addressable fire panel taking centre stage.

The Taktis 16L extends the current Taktis fire panel to provide up to 144 zone indications. It supports more than 2,000 detection devices and can network up to 128

panels, making it ideal for the largest sites such as schools, hospitals, multi-site retail/supermarkets, critical infrastructure and major commercial and industrial facilities.

Also on Kentec's stand and launched this year is the Ockular software solution, giving building managers complete control over fire detection and monitoring. It enables the

creation of a 2D site map of any site or building to monitor fire safety and detection

Visitors will also see how the Vizulinx fire alarm management solution, enables building managers and service providers to monitor and control fire systems remotely. It passes fire system events via e-mail, SMS, Modbus and BACnet message format using a standard IP connection.

Celebrating 25 years of gas detection expertise



Image Credit: UEPL

Uniphos Envirotronic Pvt. Ltd. (UEPL) celebrates its 25th anniversary in 2018, and a proud legacy of safety and environmental monitoring solutions.

“Our team of highly-qualified R&D scientists and engineers is developing products that meet the current and future needs of the industries we serve”

Rajju Shroff, founder, UEPL

Rajju Shroff founded the company in 1993 with a plan to develop phosphine detection devices and extend the technology to other gases. Today, UEPL manufactures over 300 different types of tubes to detect hundreds of different hazardous gases and vapours.

“Our company has succeeded by doing things differently, with a focus on research and development of new innovative solutions to help protect the safety of our customers and the environment,” said Shroff. “Our team of highly-qualified R&D scientists and engineers is developing products that meet the current and future needs of the industries we serve.”

UEPL is the only manufacturer of two types of gas detection tubes, its own proprietary Uniphos tubes and the KwikDraw brand, which was acquired from MSA Auer in 2014.

The original 5mm Uniphos tubes are used on a precision ASP-

40 piston hand pump, while the 7mm KwikDraw tubes are used on a bellows-style pump.

“Both of these types of tubes are equally effective in industries ranging from large chemical and petrochemical plants to oil refineries, government establishments, fumigators and many others,” said Shroff. “The decision on which type to purchase is usually based on personal preference.”

In its efforts to diversify and meet the evolving needs of customers, UEPL has recently developed a new KwikSense digital gas transmitter. This is a field mountable device suitable for the detection and continuous monitoring of hazardous gases at industrial locations such as cylinder storage yards, chemical and fertilizer plants, oil and gas sites, steel industries and pharmaceutical plants.

Housed in an explosion proof wall mountable enclosure, the transmitter has a revolutionary

design that uses advanced micro-controller and non-volatile memory devices, allowing for enhanced diagnostics and fault analysis.

The smart sensor technology allows for hot swappability of any sensor available, which makes this unit a truly universal transmitter, says the company. The KwikSense transmitter is available for a wide range of toxic and flammable gases including many exotic gases. Other features include non-intrusive calibration, three fully configurable relays, digital MODBUS and Analog 4-20 mA outputs, sensor life indicator, bump test mode and counter.

“We believe the continued innovation of these types of technologies will keep UEPL at the forefront of the gas detection industry,” concluded Shroff. “As we enter the next era of our company’s history, we are confident that we will stay one step ahead of the competition.” ♦

ABOVE: UEPL gas transmitter and tubes

Safe operation of flameproof motors in explosive atmospheres



Image Credit: WEG

Maintenance and inspection of flameproof motors are critical to ensure safe operation, say Pedro M.R. A Maia and Rui Moreira, WEG Euro, Portugal.

“The correct functional operation of hazardous area equipment requires regular inspections performed by skilled personnel”

ABOVE: Flameproof motors are widely used in industries featuring explosive atmospheres

Flameproof motors are widely used across many industries that feature explosive atmospheres. Standards such as IEC 60079-17 specify the correct design and definition of components that should be utilised, as well as giving advice on maintenance plans in order to maintain certification. Flameproof motors require routine inspection and careful maintenance, otherwise there can be serious ramifications. Here WEG outlines five tips for keeping them in perfect working order:

Ensure maintenance plans are defined and routinely followed

The correct functional operation of hazardous area equipment requires regular inspections performed by skilled personnel and, if necessary, subsequent maintenance and repair works. IEC 60079-17 specifies the need for up-to-date documentation and qualified staff, and defines inspection tables for Ex-marked equipment. For instance, daily checks are recommended for noise levels of the complete motor, as well as noise and

vibration levels of the bearings. Weekly tasks include bearing lubrication and checking the coupling alignment, while annual checks include the re-fastening of bolts, measuring the insulation resistance of the stator and rotor, and cleaning the inside of the terminal box.

General cleanliness is indeed a big issue. Motors should be free of dust, dirt and oil, which can be removed using soft brushes, clean cotton rags or jets of compressed air. However, the cleaning operation cannot be performed if

a potentially explosive atmosphere is present at the time.

Ensure your bearings are well lubricated

It is well documented that bearings are one of the most common causes of failure in electrical motors. As a consequence, correct lubrication is essential to maximise bearing life and ensure low-noise, low-temperature operation.

The lubrication of bearings must be made respecting the quantities and intervals stated on the motor nameplate and documentation; using excessive quantities of grease can cause overheating and leakage into the motor's windings. In addition, always apply a grease compatible with the one supplied by the manufacturer. Using an incompatible grease may mean that it offers different viscosity and performance, potentially reducing bearing life.

Ensure repair procedures maintain compliance

Carefully implemented repair procedures can have a huge impact on motor operation and machine uptime. Again, IEC 60079-19 gives guidance on the practical methods of repairing equipment and defines procedures to maintain compliance in line with product certification.

IEC 60079-19 states that repair facilities shall operate a QMS (Quality Management System) and appoint a responsible person with authority and technical knowledge of explosion protection standards. In addition, repair facilities need to be informed regarding equipment certificates, special conditions of use, and all necessary



Image Credit: WEG

Flameproof motors require routine inspection and careful maintenance

information from the equipment manufacturer. This includes information relative to previous repairs or modifications.

The documentation dossier may include drawings, technical specifications, operating conditions and dismantling and assembly instructions, for example. Records of inspections and of any jobs performed on a flameproof motor need to be retained by the repair facility.

Ensure flameproof joint repairs respect the manufacturer's documentation

Common faults include damaged or corroded flameproof joints, which may be repaired by means of material addition and machining following the methods approved in IEC 60079-19.

However, the resultant joint gap must respect the manufacturer's documentation. If this documentation is not available, guidance can again be found in IEC 60079-19.

In accordance with the same standard, repaired or overhauled equipment must be marked with a relevant symbol, applicable standards, the name of the

repairer and the date of repair.

The symbol will either be the letter 'R' in a square box, which indicates repair in accordance with certificate documentation and the manufacturer's specification, or the letter 'R' in an inverted triangle, which indicates repair in accordance with type-of-protection standards but not certificate documentation.

In cases of systems that after repair do not comply with certificate documentation or type-of-protection standards, the original manufacturer's label should be removed or altered to give clear indication that the equipment is not compliant. If a supplementary certificate cannot be obtained, the equipment is not in a suitable condition for use in an explosive atmosphere.

Should any repair procedures require spare parts, these should be obtained directly from the manufacturer wherever possible. In the case of bolt replacement, they must be of the same type, diameter and with at least the same tensile strength as specified by the motor manufacturer.

Reap the rewards for compliance

The correct maintenance of flameproof motors is crucial to assure the safety of personnel and plant in hazardous areas. Respecting the recommendations, manufacturer documentation and industry standards can make the difference between a unit that offers an entire operating life without problems, and the occurrence of heavy vibration and noise that lead to damage and failure.

Following carefully prepared maintenance plans with periodic inspection and monitoring will help to predict potential faults and permit end users to take actions that minimise the risks and allow for preventive repairs. These repairs must be registered and documented to permit the tracing of modifications to the certified equipment, preferably respecting manufacturer documentation. Finally, the correct marking of the repair procedures is mandatory and permits inspection teams to access the conformity of installed equipment, ensuring that the safety of the hazardous area is maintained. ✦



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Address: East Ahmadi - Al Ahmadi Corner Complex - Block No. 6 - Building No. 77- Office No. 38

The latest in safety footwear

Innovative safety footwear products were showcased at the Safety & Health Expo, which took place from 19-21 June at Excel London.

“The emphasis in the footwear category has focused on the protection of the wearer’s foot....Little or nothing has been done to increase the visibility of safety footwear, until now”

Launching at the show and drawing the crowds was Brightboot, the world’s first high visibility safety workwear boot, which combines safety footwear protection with 360 degree high visibility in low light, daylight and at night as well as in adverse weather conditions.

Designed and manufactured to withstand the harshest of

conditions Brightboot is waterproof, windproof and breathable. It conforms to the EN ISO 20345:2011 safety standard while the high visibility waterproof neoprene upper and 3M reflective elements comply to EN ISO 20471:2013 high visibility standard.

A composite protective toe cap and Kevlar perforation resistant insole ensure Brightboots are 100 per cent metal free and anti-magnetic.

“Historically the emphasis on PPE in the footwear category has focused totally on the protection of the wearer’s foot, which has undoubtedly reduced the amount of foot injuries,” said the company. “However little or nothing has been done to increase the visibility of safety footwear, until now.”

“A lot of thought has gone into this product,” commented managing director Marcus Aldred, adding that it has received “massive interest.”

Suitable for a wide range of sectors, from construction and airports to utilities and mining, it has been designed to ensure it meets the specific requirements of the oil and gas industry, and Aldred foresees a strong potential market in the Middle East.

Also attracting interest at the show were the world’s first ever ‘circular’ safety shoes from Emma. Combining safety with sustainability, the shoes can be entirely recycled and all materials are 100 per cent reused, for example in furniture, as building material and naturally in new safety shoes. The company aims to make its entire range of safety shoes circular by 2019.

Emma’s range of business safety shoes, which are smart enough to be worn with businesswear, has proved very popular, and has found a good market in Saudi Arabia.

Other innovative products on display included a new range of Grip anti-slip footwear from Safer Safety with new durable, easy to clean, high performance rubber outsole. This achieves the highest possible grip rating from the UK Health & Safety Laboratory, and grips even at 30 degrees on a soapy, oily, stainless steel surface. ♦



Image Credit: Brightboot

The Brightboot high visibility safety workwear boot

JSP launches 10 above-the-neck PPE products

PPE

Global market leader in above-the-neck PPE, JSP, launched 10 new products for the Middle East at Intersec 2018.

Speaking with *Health, Safety & Security Review*, CEO Mark Johnstone said that Intersec is a dedicated platform for showcasing best products from across the globe and not just the Middle East. And this year JSP was focusing on featuring unique PPE designed using the latest technologies.

- **Sonis®**: High performing range of ear defenders
- **Hardcap Aerolite®**: The lightest full shell bumpcap
- **Visilite®**: Helmet illumination system
- **Evo®5 Dualswitch™**: 2 standards, 1 switch
- **Stealth™ Coverlite**: Stylish overspec
- **Forceflex™**: Flexible and strong lenses which are very light weight and meet military specifications
- **Springfit™ Mask**: Fold flat disposable mask with specialised endoskeleton structure
- **Powercap®Infinity® PAPER**: A lightweight ergonomically designed positive pressure respirator designed to protect the user from dust to TH3 EN 12491:1998 + A2:2008. The Powercap Infinity gives wearers complete 4in1 respiratory, head, face & hearing protection in one compact intuitive head mounted unit. The **Powercap® Active™** is a lightweight positive pressure respirator with eye and face impact protection and EN812 bumpcap protection designed to protect the user from dust and most airborne particulate pollutants to EN12941 TH1P.

Speaking about JSP's Middle East presence, Johnstone said that the brand has been serving the region since 1975 and is well-recognised because of JSP's commitment and continuous investment for the region. The company acquired Geneva-based Swiss One Safety in 2016, and Intersec 2018 gave the impetus for JSP to showcase its added strength.

JSP has an increasingly strong presence in the Gulf region – with a JSP Gulf office based in Abu Dhabi, and local manufacturing capabilities coupled with distributing partners supplying into the MENA region. Johnstone added that the company is looking to invest in a localised warehouse to provide better aftersales service to clients directly.

Even the best sometimes are vulnerable in a



Mark Johnstone is the CEO at JSP.

market that is still in the nascent stage of putting regulations in place. As a director of the British Safety Industry Federation (BSIF), Johnstone is trying to bring in authentic safety products in the Middle East with the aid of European regulations.

“Counterfeiting is a huge problem. In the UK now we see a real crackdown on products which were either not passing the standard or which are counterfeit or fake. By March 2019, there will be very strong legislation in Europe to stop fly by night importers who are bringing in products that are not marked correctly, that do not meet standards and consequently are dangerous for wearers. It is sometimes worse to wear a product which doesn't pass the test, than to wear nothing at all. Within BSIF, we have been constantly striving to raise the level of quality, and that's what exactly we need to do here in the UAE.”

Johnstone added that there is an in-house legal team in their office in Oxford, UK, and the team is constantly monitoring the market. “Some markets can be difficult but we, in turn, make it more difficult for them legally with our competent teams. We fight it legally, we protect ourselves; protect our intellectual property rights well. We are continually staying ahead and constantly adapting.”

To combat the threat of counterfeits, JSP has implemented a unique coding system for each of its hard hats, wherein its online JSPCHECK™ system helps establish the validity of the product.

New workwear fabric from Carrington

PPE

Carrington, a leading producer of flame retardant fabrics, has produced Flametech 300AS which is available in five separate colours, including hi-vis orange and hi-vis red, to EN20471 standards – providing much-needed choice in the flame retardant market.

Suitable for industrial laundries, Flametech 300AS is a durable and comfortable fabric that provides multi-functional protection to workers operating in all environments.

Flametech is the newest addition to Carrington's extensive range of flame-retardant fabrics and joins its award-winning fabrics Flametougher 280AS and Flamestat Satin 225 Pro2.

Face shield from Riley

PPE

Protective eyewear and eye care specialist Riley, part of the Globus Group, has launched REON – a new face shield offering workers the highest level of energy impact resistance combined with Class 1 optical quality.

Certified to EN 166 Level 'A', the highest attainable impact resistance performance under the EN test, REON protects against impacts up to 190m/s (425mph) even in extreme temperatures and comes complete with a fitted chin guard for full-face protection.

It is ideally suited to workers exposed to high-speed airborne particles such as in engineering environments, mills and wherever industrial cutting and sawing machinery is in operation.

It provides a wide and unrestricted field of vision.

Saying goodbye to polluted air

AIR POLLUTION

Bahrain-based VIN Technology Systems WLL has signed a joint venture with an Italian company “ReAir” for know-how and technology transfer to manufacture photocatalytic materials and to distribute the product throughout the GCC and to neighbouring Arab countries.

The product, according to the company, uses a breakthrough environment-friendly technology capable of cleaning various surfaces including glass, as well as air.

“ReAir uses an active ingredient (titanium dioxide) which uses the energy from natural sunlight/ bulbs (UVA) to safely break down organic grime, odours, and pollutants. In the presence of UVA light, the surface treated with VIN-ReAir keeps itself cleaner, resists



The product uses environment-friendly technology capable of cleaning various surfaces

fogging, and improves the air quality inside the cabin. One application reduces pet, smoke and food odours and harmful VOCs for two to four months,” a company statement said.

Commenting on the launch, ReAir’s general manager said studies have confirmed that indoor air is more polluted than outdoor air, and most people are still unaware of the problem of

indoor pollution. “Our product is a revolution and does wonders by converting organic and inorganic harmful VOCs. It’s proven in laboratories, with real application in millions of square metres in buildings of hospitals, hotels, schools, public transport etc.”

Cherian Varghese, co-founder and CEO of VIN Technology said he is amazed at its 360-degree possibilities for keeping any type of surface clean and fresh as well as eliminating odour. “Ten square metres of surface treated with VIN-ReAir is capable of transforming and purifying 500 cubic metres of air every hour. In practice, an effect equal to that of three medium grown trees.”

For more information visit our facebook page: VIN Reair.

FFE’s new beam detector broadens accessibility

SMOKE DETECTION

Fire detection specialist FFE has announced the worldwide launch of industry’s first one minute auto-aligning beam detector, Fireray One, which makes advanced smoke detection more accessible and easier to install.

Speaking with *Health, Safety & Security Review* magazine, FFE managing director Oliver Burstall said that Fireray One is the first auto aligning system that does the job in just a minute, simplifying the need for the end-user. “The best part is that anybody can align the beam detector because the experience and expert knowledge of beam detection has been engineered into the product.”

He added that the beam detector offers a sophisticated solution that helps protect large commercial and public spaces with a simple, one person installation process. In addition,

the detector overcomes common issues such as false alarms caused by building settlement that can compromise safety. FFE also offers small end-to-end systems that can be hidden for installations sensitive to aesthetics.

FFE recognised that both spot detection and standard beam units couldn’t offer sufficient fire protection to a range of infrastructures including historic and listed buildings, buildings with high ceilings or areas of high condensation, as well as buildings with large skylights and glass atriums. Fireray One offers a one-stop solution for all.

“Historically beam detectors were installed high off the ground, for example in ceilings, that required technical installations. It’s tough manual labour. Fireray One can be installed horizontally between walls and can detect



The Fireray One beam detector

smoke much faster. Also because of its patented Light Cancellation Technology™, installation is enabled in places that could be exposed to increased sunlight without the fear of a false alarm.” Burstall added that the detector is favoured by architects due to its compact design, allowing it to discretely fit into its surroundings.

Packline introduces new clamp attachment

MATERIALS HANDLING

Packline Materials Handling has introduced a stainless steel clamp attachment with low profile pads for positioning rolls, drums and barrels, for increased efficiency and improved health and safety conditions.

This clamp attachment is used in processing, production and warehouse environments to lift rolls of film, foil and paper. It is suitable for many industries including automotive, aircraft, printing and mechanical engineering as well as hygienic applications within cosmetic, pharmaceutical and food manufacturing.

The clamp is fitted with low profile pads which enable the handling of rolls or drums when lifting and positioning nearer to the floor and where there is limited space to load the rolls onto the processing line.



The new clamp attachment facilitates the positioning of rolls, drums and barrels

The attachment is manually rotated. The rolls are securely gripped by the external diameter. A handwheel provides the clamping and release actions and the mechanism has a torque

limiter fitted so that the pads do not over or under tighten.

These features combine to enable the operator to lift, transport and handle rolls, barrels and drums with complete

confidence and safety.

The purpose-designed compact framework, positioning of handlebars and addition of an optional remote-control device provide improved manoeuvrability and ease of use for the operator.

The small footprint makes this roll handling equipment highly manoeuvrable.

The attachment has a maximum lifting capacity of 150kg and is suitable for rolls ranging from 100mm diameter to 450mm diameter.

It is backed up by a full bespoke design service, so ensuring that the right solution can be made to suit most lifting requirements.

All Packline attachments are fully interchangeable and can be easily fitted or removed from any model of 'Compac' lifting machine that is fitted with the attachment quick release system.

IDIS surveillance technology employed at World Cup 2018 stadiums

SECURITY

With security and safety a major focus during the recent World Cup in Russia, IDIS surveillance technology was chosen for a surveillance upgrade at the 45,000 capacity Rostov Arena and the 35,000 capacity Kaliningrad Stadium.

At both locations an IDIS Total Solution was installed with a total of 3,000 IP cameras comprising full HD and H.265 models and PTZ cameras featuring Smart UX Controls v2.0, a range of full HD, true wide dynamic range (WDR), IR bullet cameras and full HD box cameras with all external cameras equipped to withstand Russia's often harsh weather conditions.

A centralised surveillance monitoring centre utilising an IDIS ultra-thin bezel 55"

video wall delivered command and control of the two stadiums and allowed security staff to access 60 days of archived footage from 50 remote IDIS DR-8364 NVRs implemented at situational centres. IDIS technology deployed at these response centres enabled security staff to rapidly detect and respond to any breach of health and safety, suspicious behaviour or terrorist threat.

For complete protection, IDIS Critical Failover was installed, in order to prevent loss of vital recorded data during a range of fault conditions. The system automatically steps in to ensure continued recording in the event of network instability, network failure, storage failure, recorder hardware failure and power supply failure, in each case ensuring that no data is lost.

"The IDIS surveillance system, installed inside and around the stadium gave security controllers a complete overview of the site and perimeter fences," said Joon Jun, president of the Global Business Division of IDIS. "Our advanced technology helped to ensure safety and security by preventing unauthorised intrusion.

"We are proud that our brand credibility and product stability have been recognised on the global stage at an event which was the focus of world attention. To safeguard thousands of visitors at these key venues, it was essential to use the most reliable technology including high-resolution surveillance cameras with waterproof and dustproof functions and a solution that prevented data loss in the event of network instability."

BAUER KOMPRESSOREN introduces new Breathing-Air quality system

AIR QUALITY

We are all concerned about the purity of the air we breathe, be it naturally occurring or compressed air (Breathing-Air). Besides pollutants that may be drawn from ambient air, a number of additional pollutants may be added during compression. It is at the compressor outlet that purification processes are intended to prevent contaminated Breathing-Air from reaching the user.

BAUER KOMPRESSOREN strives to ensure that the Breathing-Air produced by its compressors is always reliably pure. Besides cutting edge compression and purification technologies, the company has now introduced LabOnLocale-365®. This ISO-accredited and patented product, developed by USA-based X-zam Labs, performs two functions:-

- ❖ It analyses the Breathing-Air at five minute intervals, providing air quality data to as



The new product ensures reliable, safe Breathing-Air at all times

many personnel as required. In the event that the air does not meet regulations, an e-Alert is sent to those same individuals and the compressor circuit is interrupted as well. This provides for reliable, safe Breathing-Air at all times.

- ❖ With most Breathing-Air

regulations requiring periodic analysis, such as before/after compressor maintenance, and performed by an accredited laboratory, LabOnLocale-365® performs analysis on demand, within minutes, any time, and 365 days a year. No more need to send samples away or to

wait for reports. LabOnLocale-365® is offered in two configurations; factory integrated into the BAUER Unicus-4i or added as an aftermarket accessory for any BAUER model. Every LabOnLocale-365®, no matter which version, takes advantage of cloud technology where user settings can be adjusted, air quality data viewed, and air quality reports downloaded from anywhere and at any time. www.LOL365.LabOnLocale.com

There are a multitude of LabOnLocale-365® analytical configurations and regulations to which it can test. The typical Breathing-Air version can analyse for carbon monoxide (CO), carbon dioxide (CO2), methane (CH4), oxygen (O2), humidity (H2O), nitrogen (N2), oil mist, and particles. The instrument can be tuned to test to nearly any worldwide ISO Breathing-Air regulation including NFPA-1989 & EN 12021.

Image Credit: BAUER KOMPRESSOREN

Low pressure water mist firefighting system from Bristol

FIRE SAFETY

Dubai-based provider of fire protection services and equipment, Bristol, unveiled the Low-Pressure Water Mist Fire Suppression System at Intersec 2018.

The distinguishing feature of Bristol’s dual fluid, low pressure technology is its ability to atomise liquids into extremely small droplets and carry them on an air stream. By adjusting nozzle design, water volume and air pressure parameters, qualities of the mists it generates can be controlled. This

flexibility enables optimal mist solutions for a broad range of applications. Many industries are expected to benefit from the application of optimal mist to tackle fires while leaving water sensitive infrastructure undamaged.

Delicate and non-toxic, the Low-Pressure Water Mist Fire Suppression System can also be used to ‘envelope’ a person threatened by fire to allow firefighting personnel to secure and rescue them while tackling a blaze.

Mahmoud Awad, managing director of

Bristol, said, “The Low-Pressure Water Mist Fire Suppression System represents a really exciting step as we believe that using water as a universal agent for fighting fires is the future. Not only is the system a revolutionary step forward in the way fires can be tackled and safely extinguished, it’s a very versatile, operator- and environmentally-friendly system.”

Bristol has been serving Middle Eastern, African and Central Asian markets for more than three decades.

Personal Protective Equipment Buyers' Guide 2018

The Middle East's annual where-to-buy guide

Section One: Listings by category

Section Two: International and regional suppliers

Section Three: Contact details of Middle East agents & subsidiaries listed by country

Categories

Body Armour

Teijin Aramid GmbH

Breathing Equipment/Protection/Respirators

Ansell Health Care Middle East
Bullard Asia Pacific Pte. Ltd.
Globus EMEA FZE
KARAM SAFETY DMCC
Schefferville Trading LLC

Chemical Protection Suits

Ansell Health Care Middle East
Globus EMEA FZE
IST SAFETY LTD

Disposable Clothing

Ansell Health Care Middle East
IST SAFETY LTD

Ear Protection

KARAM SAFETY DMCC
Schefferville Trading LLC

Face Protectors

Bullard Asia Pacific Pte. Ltd.
Schefferville Trading LLC

Foot Protection/Safety Footwear

Ballyclare Ltd.
JOYAN (XIAMEN) IMP & EXP CO. LTD
KARAM SAFETY DMCC
Schefferville Trading LLC

Hand & Arm Protection

Ansell Health Care Middle East
Globus EMEA FZE

Head Protection/Helmets

Bullard Asia Pacific Pte. Ltd.
KARAM SAFETY DMCC
Nightstick by Bayco Products Inc.
SINGING ROCK S.r.o.
Teijin Aramid GmbH

Heat & Fire Resistant Clothes & Garments

Ballyclare Ltd.
Carrington Textiles Ltd
Fuzhou Luxe Group Corporation Ltd
IST SAFETY LTD
KERMEL
Nightstick by Bayco Products Inc.
Teijin Aramid GmbH

Protective Clothing

Ballyclare Ltd.
Fuzhou Luxe Group Corporation Ltd
IST SAFETY LTD
KERMEL
Teijin Aramid GmbH

Protective Clothing for Fire Brigades

Ballyclare Ltd.
Carrington Textiles Ltd
IST SAFETY LTD
KERMEL

Protective Eyewear/Safety Glasses

Globus EMEA FZE
KARAM SAFETY DMCC
Schefferville Trading LLC

Protective Gloves

Ansell Health Care Middle East
Ballyclare Ltd.
Globus EMEA FZE
KERMEL
Teijin Aramid GmbH

Reflective Materials

Fuzhou Luxe Group Corporation Ltd

Uniforms

Carrington Textiles Ltd
Fuzhou Luxe Group Corporation Ltd
Nightstick by Bayco Products Inc.

Fall Protection

KARAM SAFETY DMCC
SINGING ROCK S.r.o.

Suppliers

Al Garawi Group



PO Box 41122
Al Orouba-King Fahad Highway
Junction Olaya
Riyadh
11521
Saudi Arabia
Tel: +966 14 196096/195058
Fax: +966 14 196101
Web: www.algarawigroup.sa
E-mail:
ashrafali@algarawigroup.sa

Ansell Health Care Middle East

1-Lake Plaza Tower
Jumeirah Lake Towers
22nd Floor, 2202
United Arab Emirates
Tel: +971 4 4523232
Web: www.ansell.com
E-mail:
syedfarrukh.ali@ansell.com

Ansell is a world leader in providing superior health and safety protection solutions that enhance human well-being. The world's need for better protection never stops, so Ansell is constantly researching, developing and

investing to manufacture and distribute cutting edge product innovation and technology, marketed under well-known brands that customers trust. Operating in two main business segments, Industrial and Healthcare, Ansell is the market leader that continues to grow, employing 13,000 people worldwide. With operations in North America, Latin America/Caribbean, EMEA and Asia Pacific, customers in more than 100 countries around the world trust Ansell and its protection solutions. Ansell Industrial business unit provides workers with gloves that maximize protection, dexterity, comfort and grip across a wide range of industrial applications.

Whether the job requires the handling of sharp edges, the manipulation of small parts, the operation of heavy machinery, the use of chemicals or food preparation, Ansell's work gloves deliver improved safety, efficiency and performance, which results in greater workplace productivity and reduced safety costs. Information on Ansell and its products can be found at www.ansell.com.

Agents:

Saudi Arabia - Ansell Health Care Middle East (KSA)
United Arab Emirates - Ansell Health Care Middle East (UAE)

ATG Gloves



PO Box 211404
Dubai
United Arab Emirates
Tel: +971 5 51014064
Fax: +971 4 4019257
Web: www.atg-glovesolutions.com
E-mail: sofianh@atg-glovesolutions.com

Ballyclare Ltd.

The Forum
Hercules Business Park
Bird Hall Lane
Cheadle Health, Stockport,
Cheshire, SK3 OUX
United Kingdom
Tel: +44 844 4932808
Fax: +44 844 4932801
Web: www.ballyclarelimited.com
E-mail: info@ballyclarelimited.com

BAUER KOMPRESSOREN GCC FZE



PO Box 261413
Jebel Ali Free Zone
Dubai, United Arab Emirates
Tel: +971 4 8860259
Fax: +971 4 8860260
Web: www.bauer-kompressoren.de
E-mail: sales@bauer-kompressoren.ae

Bullard Asia Pacific Pte. Ltd.

701 Sims Drive, LHK Building
No.04-03
387383, Singapore
Tel: +65 67450556
Fax: +65 67455176
Web: www.bullard.com
E-mail: bullardasia@bullard.com

Founded in 1898, E.D. Bullard
Company is a leading manufacturer

and one of the most trusted providers of high-quality personal protective equipment and systems in the world. Our sales teams provide a compelling portfolio of market-specific solutions to address the global needs of fire services, law enforcement, military, industrial, manufacturing and healthcare markets. Bullard is the recognized global leader in mission-critical safety. Product lines include thermal imagers, hard hats, firefighter and rescue helmets, supplied air respirators, powered air-purifying respirators, and air quality equipment.

Cam Lock Middle East LLC

PO Box 51, Al Rusayl
Muscat, 124
Oman
Tel: +968 24253055
Web: www.camlockme.com
E-mail: info@camlockme.com

Carrington Textiles Ltd



Market Street
Adlington
Lancashire PR7 4HJ
England
Tel: +44 (0)1257 476850
Fax: +44 (0)1257 476852
Web: www.carrington.eu
Email: info@carrington.co.uk

Carrington are the largest producer of workwear fabrics in the UK, exporting to more than 75 countries worldwide, with over 60% of our products going to new markets. We produce over 50 million metres of fabric annually. Throughout Europe, and beyond, millions of people go about their tasks in workwear made from our fabrics.

Cirrus Research PLC

Acoustic House,
Bridlington Road
Hunmanby, North Yorkshire
YO14 0PH, United Kingdom
Tel: +44 1723 891655
Web: www.cirrusresearch.co.uk
E-mail: sales@cirrusresearch.co.uk

Fuzhou Luxe Group Corporation Ltd

3rd floor, 2nd Building,
BiQuan Industry Zone
No.157 JinYan Road
CangShan district
China
Tel: +86 591-86325383
Fax: +86 591-86325376
Web: www.u-luxe.com
Email: jessiezhang@u-luxe.com

Fuzhou Luxe Group Corporation Limited is a garment manufacturer, which specialized in hi vis safety garment, functional working garment, workwear, casual working wear and rainwear, our aim is to provide customer: excellent supply chain resource, good quality product, competitive price and efficient service.

Globus EMEA FZE

Globus EMEA FZE
Unit UA03
831st Street
Jebel Ali
Dubai
United Arab Emirates
Tel: +971 4 8829962
Fax: +971 4 8829963
Web: www.globusgroup.com/gcc
E-mail: gcc@globusgroup.com

IST SAFETY LTD

Ostim Mah. Ivedik OSB 31
Cad 2269
Sok No:42
06374 Yenimahalle
Ankara
Turkey
Tel: +90 312 384 13 00
Fax: +90 312 341 73 03
Web: www.ist.com.tr
Email: info@ist.com.tr

Our company has EN ISO 9001:2015 Quality Certificate.

We are manufacturer of Firefighting suits, Aluminized fire proximity suits, Arc flash clothings, Emergency showers & eye/face washes, Tailored Tank showers, Decontamination units, Safety storage and carrying cans and Airline breathing systems located in Ankara, Turkey since 1979.

JOYAN (XIAMEN) IMP & EXP CO. LTD

Room1203
Kangli Finance Building
Yilan Road No.9
Siming District
Xiamen City, Fujian
China
Tel: 008605925669717
Fax: 0086-0592-5116683
Web: www.joyansafety.com
Email: sales07@topsafetywear.com

We are a professional manufacturer of Safety Shoes, Having more than 10 years on exporting experience, we have more sense on the styles which appeal to different countries and area. And all our production style are certificated as CE EN ISO 20345:2011/A1:2007.

KARAM SAFETY DMCC



PO Box 27307, 2108
1-Lake Plaza
Jumeirah Lake Towers
Dubai
United Arab Emirates
Tel: +971 4 4315221
Fax: +971 4 4315727
Web: www.karam.in
E-mail: dubai@karam.in

KARAM is a renowned and finest quality manufacturer of Personal Safety Equipment. Marketing its presence with cutting-edge innovation, KARAM introduces Industry-specific and an exhaustive range of Fall Protection Solutions in the form of products like Specialized Oil Repellant Full body harnesses, Energy Absorbing connecting elements, and a wide range of tested and certified Anchorage Solutions. KARAM range now has more than 365 tested and EN certified products, and an ever-growing numbers of more than 75 ANSI certified Fall Protection products. By 2015 alone, KARAM has reached out to satisfied customers is more than 130 countries all across the world through trained Marketing personnel, and an extensive global distribution network.

KERMEL

20 Rue Ampere
Colmar Cedex
68027
France
Tel: +33 3 89204744
Web: www.kermel.com
E-mail: com2@kermel.com

KERMEL is a fibre manufacturer and a solution-provider of textile innovations made out from its heat and flame-resistant fibres for personal protective equipment (PPE). Fire suits for fire fighters, protective coveralls for public order, military and industrial uses are some of the applications chosen for total protection.

MSA middle East

PO Box 54910
Dafza, Dubai
United Arab Emirates
Tel: +971 4 2996741
Fax: +971 4 2996843
Web: www.msasafety.com
E-mail: info.ae@msasafety.com

Nightstick by Bayco Products Inc.

Nightstick
640 S. Sanden Blvd
Wylie TX, 75098
United States of America
Tel: +1 800 2332155
Fax: +1 855 8187973
Web: www.nightstick.com
E-mail: webinfo@nightstick.com

Nightstick is a global brand of professional lighting products, including flashlights, floodlights, headlamps and Intrinsically Safe lighting solutions that exceed industry standards in performance,

quality, user-safety and value. Nightstick's line-up of LED lighting products delivers optimal performance in real-world applications with an unwavering commitment to quality and exceptional customer service.

Packline Ltd



Unit 28, Newtown Business Park
Ringwood Road, Poole
BH12 3LL
United Kingdom
Tel: +44 (0)1202307700
Fax: +44 (0)1202722066
Web: www.packline.co.uk
Email: info@packline.co.uk

Packline Materials Handling has been designing and manufacturing lifting and handling equipment since 1993, and with its 'compact' range of stainless steel reel, roll and drum handling equipment has established itself as the leading supplier of quality materials handling equipment for the food, drink, dairy, pharmaceutical and medical processing industries worldwide.

Schefferville Trading LLC

PO Box 63934
Office No.1, Sultan Building
Industrial Area-3
GECO Dubai Road, Sharjah
United Arab Emirates
Tel: +971 6 5757860
Fax: +971 6 5757890
Web: www.eyevexsafety.com
E-mail: scheffer@emirates.net.ae

We are an Organization that believes in sharing our expertise

and providing right personal safety products and industrial equipment at the right price with integrity and honesty.

Schefferville's range of products include the biggest names in the PPE field, like TAG-IT, FireWarrior, Hunk, ORYX, EYEVEX that are known and trusted by HSE professionals.

Agents:

Kuwait - Al Fal International Trading LLC
Oman - Al Dastoor Contracting LLC
Saudi Arabia - Khalifa A. Al Gosaibi Trading LLC

SINGING ROCK S.r.o.

Ponikla 317
Ponikla
51401
Czech Republic
Tel: +420 481 585007
Fax: +420 481 540040
Web: www.singingrock.com
E-mail: info@singingrock.com

SINGING ROCK is one of the world leaders on the market of climbing equipment and professional protective equipment for work at heights, military and rescue. All our products are developed and produced in Czech republic and they are certified and fully comply with appropriate EU directives and standards.

Agents:

United Arab Emirates - Global Climbing Trading LLC

Teijin Aramid GmbH

Kasinostr. 19-21
Wuppertal
42103
Germany
Tel: +49 202 324422
Fax: +49 202 322351
Web: www.teijinaramid.com
E-mail: personalprotection@teijinaramid.com

Teijin has a long history of providing technology driven fiber and fabric solutions for high performance personal protective apparel. From firefighting garments and industrial workwear to flame and cut resistant gloves, Twaron®, Technora®, Teijinconex® and Teijinconex® neo fibers are among the most trusted names in personal protection.

TEXPORT® GmbH

Franz Sauer Straße 30
5020 Salzburg
Austria
Tel: +43 662 423 244
Fax: +43 662 423 243
Web: www.texport.at
Email: Office@texport.at

TEXPORT® is manufacturer of high-quality functional clothing for firewear and workwear. Our in-house developments range from functional outerwear (jackets, trousers, overalls, etc.) to functional innerwear (fleeces, uniform trousers, polo shirts, etc.) to gloves and boots specially produced for firefighting.

Agents & Subsidiaries

Kuwait

Al Fal International Trading LLC
Egalia

Oman

Al Dastoor Contracting LLC
Muttrah

Saudi Arabia

Ansell Health Care Middle East (KSA)

Tel: +966-507-225483
Web: www.ansell.com
E-mail: faris.ishaque@ansell.com

Khalifa A. Al Gosaibi Trading LLC
Dammam

United Arab Emirates

Ansell Health Care Middle East (UAE)

PO Box 125299, Lake Plaza Tower
JLT, Cluster T
Tel: +971 55 1333368 / +971 4 452 3
Web: www.ansell.com
E-mail: syedfarrukh.ali@ansell.com

Global Climbing Trading LLC

PO Box 474476
Shed #1 Plot 598-1119
Dubai Investment Park 1, Dubai
Tel: +971 4 8829361
Fax: +971 4 8829362
Web: www.globalclimbing.com
E-mail: info@globalclimbing.com

يتعين على قادة السلامة اتخاذها:

لا يُجري العديد من المتخصصين في مجال الصحة والسلامة والحماية والبيئة المناقشات حول السلامة على أعلى المستويات لعدم إلمامهم بذلك. وفيما مضى، كان يتم تناول الأمور المرتبطة بالسلامة بشكل تكتيكي. وهذا مناسب عند إدارة السلامة في الأعمال اليومية، وليس في حالة إدماجها في جوهر عمليات المؤسسة. تُعنى مجالس إدارة المؤسسات بالمخاطر التي تتعرض لها المؤسسة، ويجب أن يتمكن القادة من صياغة إطار للسلامة على نحو يعبر عن هذه المخاطر بشكل كافٍ.

لهذا عليك الإجابة على السؤال التالي: ما هي المخاطر الرئيسية التي تواجه المؤسسة والتي يتعين أن تنال قدراً من الاهتمام خلال اجتماعات مجلس الإدارة، ولماذا؟ ما هي الآثار المترتبة على الأعمال إذا واصلنا مستوى الأداء الحالي؟ هل نحن عرضة لخطر وقوع كارثة؟ ما الذي يمكن أن نتعلمه من المؤسسات التي تُطبق أعلى معايير السلامة؟

تتسم هذه الأنواع من الأسئلة الشاملة بأهمية بالغة لتحديد المعلومات الصحيحة التي يجب عرضها على مجلس الإدارة العليا. وعندما ينصب تركيزك على المواضيع المتعلقة بالنواحي التنظيمية بشكل يفوق المواضيع العامة (مثل تناول مسألة تعرض موظفي المؤسسة لإصابات خطيرة وأخرى تهدد الحياة، أو تأثيرات السلامة على الأداء التشغيلي بدلاً من استعراض آخر معدلات الإصابة)، ستبرز لك العديد من المواضيع الجوهرية التي تجدر مناقشتها. من غير الكافي اعتبار السلامة مسألة يجب مناقشتها على مستوى مجلس

الإدارة، إذ يجب عليك توفير خارطة طريق قابلة للتنفيذ. ويوفر إطار العمل المناسب نظاماً لفهم وقياس وإكمال كل عنصر من عناصر الأعمال التي تحقق الأداء المتميز. كما يجب أن يقدم إطار العمل هذا الإجابة على أسئلة مثل: ما هي العوامل الفعلية التي تعزز أداء السلامة؟ ما هي أوجه الأداء الجيد وتلك التي تتطلب التحسين؟ كيف يتم التحسين؟ يساعد إطار العمل الجيد أعضاء مجلس الإدارة على تتبع طبيعة وملابسات المخاطر، فضلاً عن مستوى تقدم المؤسسة في تخفيف حدة هذه المخاطر. لن تشغل السلامة حيزاً فعلياً كبيراً على طاولة مناقشات مجلس الإدارة طالما اعتمد المسؤولون التنفيذيون على المتخصصين في مجال السلامة في أداء جميع المهام الصعبة. كما يحتاج أعضاء مجالس إدارة المؤسسات، ومن يشغلون سدة القيادة بها، إلى قادة على أعلى المستويات بوسعهم توجيه المناقشات وضمان الفهم الجيد للمخاطر التي تتعرض لها الأعمال، والتعامل معها على نحو ملائم. بالإضافة إلى ذلك، يتعين على المؤسسات تعيين وترقية أصحاب أفضل المهارات في

الوظائف القيادية المتعلقة بالسلامة، وجعل الوظائف في مجال السلامة خطوة ضرورية في المسار المهني للقادة من ذوي الإمكانيات المتقدمة، إلى جانب تطوير مهارات القيادة لدى المتخصصين في مجال السلامة. ويمكن للمسؤولين التنفيذيين من أصحاب الكفاءات في مجال السلامة توجيه مجالس إدارتهم لاتخاذ القرارات التي من شأنها تقييد المخاطر وخلق الفرص ورفع مستوى السلامة وتحسين سير أعمال المؤسسة.

يجب أن يلتزم المسؤولون التنفيذيون المعنيون بإدارة السلامة بإجراء المناقشات الاستراتيجية التي لا تعود فقط بالنفع على الموظفين وإنما يكون لها مردوداً أيضاً على صحة وسلامة المشاريع. إن الوصول إلى تلك الغاية ليس بالأمر السهل. إذ أن التحول من التخطيط التكتيكي إلى التخطيط الاستراتيجي يستغرق الوقت ويتطلب الجهد لتحقيقه.

والأهم من ذلك أنه يحتاج إلى قادة يعيدون النظر في الافتراضات القديمة حول طبيعة السلامة وما يمكن أن تكون عليه في المستقبل.



سبتمبر/أيلول

24 - 25 منتدى الكويت للصحة والسلامة والأمن الكويت

28 - 25 معرض إيسسن للأمن إيسسن / ألمانيا

أكتوبر/تشرين الأول

٣ - ١ معرض عُمان للوقاية من الحرائق والأمن - OFSEC مسقط

١٥ - ١٢ معرض ومؤتمر ابوظبي الدولي للنفط - أدبيك أبوظبي

نوفمبر/تشرين الثاني

١٩ - ١٧ معرض الشرق الأوسط للوقاية من الحريق والسلامة والأمن - MEFSEC القاهرة

مفكرة رجال الأعمال 2018



لا بد أن تحتل السلامة مركز الأولوية عند وضع أية استراتيجية

لماذا يجب أن تشغل السلامة حيزاً كبيراً على طاولة مجلس الإدارة

في هذا المقال، يناقش داريل ويك، خبير السلامة السلوكية بشركة DEKRA Organisational Reliability Ltd، ما ينبغي على القادة في مجال السلامة فعله لتوجيه المزيد من الاهتمام لشؤون السلامة. وهو يقول إنه يتعين على المؤسسات تعيين وترقية أصحاب أفضل المهارات في الوظائف القيادية المتعلقة بالسلامة، وجعل الوظائف في مجال السلامة خطوة ضرورية في المسار المهني للقادة من ذوي الإمكانيات المتقدمة.

الحقيقي هو عدم التعامل مع السلامة باعتبارها وظيفة إستراتيجية على الرغم من تقدير قيمتها بالنسبة للأعمال. فلم تتعلم العديد من المؤسسات بعد كيفية صياغة السلامة وتحويلها إلى مصطلحات قابلة للإدراك على سبيل المثال، أو كيفية التخطيط للمسارات المهنية لخبراء السلامة بما يتجاوز مجرد الإدارة التنظيمية. ولنيل هذا القدر من الاهتمام، هناك ثلاثة إجراءات حيوية

الإستراتيجيات، لا سيما على جدول أعمال مجلس الإدارة. غير أنه باستثناء بعض المؤسسات التي تشهد تقدماً في تطبيق معايير السلامة، فلا يزال عنصر السلامة يفتقر إلى الاهتمام الكافي. لم لا؟ إن الأمر لا يتعلق بإبراز أهمية إدراج السلامة على جدول أعمال مجلس الإدارة. فقد فعلت العديد من المؤسسات ذلك ولا تزال القضية ملحة. السبب

إن السلامة في مجال النفط والغاز أمر لا يمكن بعد لأية مؤسسة تجاهله أو اعتباره عديم الأهمية. وليس سرا أن السلامة تمثل جزءاً لا غنى عنه في أية شركة تعمل في مجال النفط والغاز. ومن المؤكد أن المؤسسات الأكثر حرصاً على تطبيق معايير السلامة يرتفع مستوى أدائها لوظائف الأعمال الأخرى. ونعلم أيضاً مدى أهمية توجيه المزيد من الاهتمام للسلامة عند وضع

فني هذا العدد ...



تحليلات:

لماذا يجب أن تشغل السلامة حيزاً كبيراً على طاولة مجلس الإدارة

ماضن محتويات القسم الإنجليزي:

التطورات: تطورات السوق.

تحليلات: معدات الحماية الشخصية، دليل المشتري لمعدات الحماية الشخصية، السلامة الكهربائية، الوقاية من الحرائق في المباني، السلامة الصناعية، الأمن السيبراني.

فعاليات: المنتدى الكويتي للصحة والسلامة والأمن، معرض عُمان للوقاية من الحرائق والسلامة والأمن .

المحررة: لويز ووترز - بريد إلكتروني: louise.waters@alaincharles.com

مديرة التحرير: جورجيا لويس

فريق التحرير والتصميم: برانشانت إيه بي - هيريتي بايرو - رانجانات جي إس - توم مايكل

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كيستل دوكسيري - فاني فينوجوبال - ديلينا روي.

مدير مبيعات المجلة: ريتشارد روزيلار

هاتف: +٤٤ ٢٠ ٧٨٣٤ ٧٦٧٦ - فاكس: +٤٤ ٢٠ ٧٩٧٣ ٠٠٧٦

بريد إلكتروني: richard.rozelaar@alaincharles.com

المكتب الرئيسي:

Alain Charles Publishing Ltd, University House, 11- 13 Lower Grosvenor Place, London SW1W 0EX, UK

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مكتب الشرق الأوسط الإقليمي:

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هاتف: +٩٦٦ (٤) ٤٤٨ ٩٢٦٠ - فاكس: +٩٦٦ (٤) ٤٤٨ ٩٢٦١

الإنتاج: ناتانيل كومان - مامتا كارتيك - نيللي مينديز - كافيا جيه

بريد إلكتروني: production@alaincharles.com

الإشتراكات: بريد إلكتروني: circulation@alaincharles.com

الناشر: نك فوردهام

مدير المبيعات: مايكل فريدج

رئيس مجلس الإدارة: دريك فوردهام

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الطبعة: مطبعة الإمارات - دبي

الترجم: عزالدين م. علي - بريد إلكتروني: ezzeddin@movistar.es

التصميم والإخراج الفني: محمد مسلم النجار - بريد إلكتروني: alnajjar722@gmail.com

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Advertiser Index

| | | | |
|----------------------------------|------|------------------------------------|----|
| Company | Page | Muscat Expo LLC (OFSEC 2018) | 9 |
| Al Garawi Group | 12 | Packline Materials Handling..... | 7 |
| Bauer Kompressoren GCC FZE | 15 | Safety & Fire Expert | 23 |
| Karam Safety DMCC | 5 | Vin Technology Systems WLL | 2 |



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INTRODUCTION

Health, safety and security is a priority sector in the UAE. This is in response to rapidly evolving security threats worldwide, as well as continued growth in the country's commercial, shipping, property, financial and tourism sectors. The UAE is now a leading contributor to security and stability in the Gulf - and plays a vital role in global security infrastructure as part of the international war on terror. In response to these growing demands the UAE is seeking to increase its local capacity for health, safety and security related production. Fire protection also has huge growth potential, with the Middle East's fire security market estimated to grow annually by 12.5% from 2012 to 2020. During this period, the market will grow from US\$1.6bn to US\$4.2bn, making it one of the largest in the world.

تنشيرة الصاعدة والسلامة والأمن

شريف 2018

الشرق الأوسط

لماذا يجب أن تشغل
السلامة حيزاً كبيراً
على طاولة
مجلس الإدارة

ما الذي يجب على المعنيين بالسلامة عمله لكي تشغل حيزاً كبيراً
على طاولة مجلس الإدارة؟

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