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Health, Safety & Security Review

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Middle East

POWERING SECURITY

Concerted efforts to ensure safer domestic and international environments

INSIDE...

Looking at security measures in Saudi Arabia and Abu Dhabi ISNR to showcase technologies to ramp up security measures 'Fit' is imperative for good respiratory protective equipment

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Security is of paramount importance today and it is just not about human conflict. ISNR, the region's foremost platform dedicated to homeland security, safety and national resilience, will be held in March 2016 and showcase a host of innovative products to fight cyber crime and handle disaster management. We have a full preview of this year's edition of the show (p26). We also have a feature on maritime cyber security looking into measures on how to make GCC ports safer (p16). An exclusive interview with Alan Murray, chief executive of British Safety Industry Federation, will reveal the importance of fit test for respiratory equipment (p20).

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Bertin Technologies to install gas leak tracking system at Jazan Refinery

HAZARD MANAGEMENT

Petrofac has awarded a contract to Bertin Technologies to supply, install and commission a gas leak tracking system — Second Sight® — at the Saudi Aramco-owned Jazan Refinery.

According to the company, Bertin Technologies has achieved a major breakthrough by customising its own gas imaging camera. Initially developed for defence and civil security applications, Second Sight® 2 has been adapted to IECEx3 hazardous area and Saudi Aramco standards. To enhance the level of safety on site, Bertin Technologies will also provide a turnkey solution that detects and monitors explosive gas clouds.

“Bertin Technologies has been supplying chemical and biological detection systems for more than 15 years in France, and worldwide for defence and homeland security,” said Philippe

Demigné, Bertin Technologies president. “Our Second Sight® technology already has a proven track record in the monitoring and visualisation of hazardous gas clouds for safety purposes. This solution has been used during large events including the Football World Cup 2014 and in monitoring public buildings, from the USA to South Korea.”

Complete scene visualisation, real-time and easy-to-operate solution Second Sight® solution has been selected because it offers several benefits that complement conventional gas detection methods. It provides, in real time, complete scene visualisation. In the case of alarm activation, it localises the leakage source and direction of the explosive gas cloud in the vicinity. Second Sight® provides continuous wide area coverage per device, with typical spans of 700 metres in length by 500 metres in width.

With fields of view of 30° to 60°, Second Sight® can supervise entire sectors of a plant with detailed spatial resolution.

Second Sight® conveys a rich stream of information – the dynamic representation of gas flux allows users to identify not only the specific zones from which gas plumes originate, but also the direction of dispersal, leading to efficient responses to hazardous events. Its detection capability includes a large number of hydrocarbons such as methane, butane, LPG, in addition to toxic industrial compounds such as ammonia and sulfur dioxide. It can detect multiple gases at the same time.

Due the infrared technology, Second Sight® is unaffected by humidity, carbon dioxide or other atmospheric constituents present in a plant atmosphere. A field proven solution leading to an advanced level in the



chemical, oil and gas safety standards, explosive gas leaks are an ever-present risk that have to be managed at refineries. Any leak has the potential to accumulate into dangerous clouds that can ignite when they reach a certain concentration. Current leak detection methods typically deploy point detectors at various locations in a refinery that measure specific chemicals. These traditional point detectors do not always give a full and accurate picture of the chemical environment.

Canon Middle East and CCS launch first IR security cameras in Egypt

SURVEILLANCE

Canon Middle East has announced the launch of nine new network cameras including the company's first 360° outdoor and infrared-enabled models for its Egyptian consumers.

The network cameras are designed for both indoor and outdoor environments including retail, city surveillance and critical infrastructure monitoring.

The cameras are the first infrared (IR) based fixed box cameras featuring a 2.4x zoom lens and an ultra-wide 113.4° angle of view for high quality imaging, day or night.

Hendrik Verbrugge, marketing director at

Canon Middle East, said, “Identifying this need, Canon Middle East has partnered with Computer and Communications Computer (CCS) to provide powerful network cameras such as the fixed box network cameras, which have ultra-wide lenses and built-in IR LED that enables filming in zero light conditions and smart shade feature, which brightens dark areas in the images captured.”

According to a research by G4S, the Middle East has evolved as the most vibrant safety and security market in the world. The rapid pace of economic and infrastructural development has caused the market to achieve

a growth rate of over 10 per cent annually, since 2012. In Egypt, there is a great demand for security equipment, ranging across diverse sectors but particularly from commercial, retail and transportation sectors.

Khaled, managing director at CCS, added, “The need for remote surveillance, and screening and detection is more pressing today than it has ever been in the past. Canon has some of the best technology available today, fully capable of meeting every surveillance need of Egypt. We are delighted to partner with them and distribute this technology in Egypt.”

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DEWA certified as occupational health and safety training centre



Saeed Mohammed Al Tayer is the CEO of DEWA. (Photo: DEWA)

TRAINING CENTRE

Dubai Electricity and Water Authority (DEWA) has been certified by the British Safety Council as an occupational health and safety training centre.

DEWA is the first government department to be registered with the UK council. DEWA employees and strategic partners who undergo the training will be awarded with credit certificates in

occupational health and safety from the British Safety Council.

Saeed Mohammed Al Tayer, MD and CEO of DEWA, said, “This certification reflects DEWA’s global position as a pioneering international utility that provides an ideal working environment. This helps us to achieve our vision to become a sustainable innovative world-class utility that operates to the highest international standards of occupational health and safety. This will encourage a culture of occupational health and safety and environmental sustainability, to achieve the happiness of our clients, partners and employees, and to protect our environment and natural resources.

“During the first stage of the programme, DEWA will offer the first and second levels of training to its employees. The certification enhances standards of health and safety at DEWA, as part of our continuous improvement

process. In addition to enhancing the potential and abilities of employees and improving their performance, this training will also increase their satisfaction.”

Yousef Al Akraf, executive vice-president of business support and human resources, added that DEWA gives priority to occupational health and safety. “It also sets international standards to manage changes around the world. The attainment of this international certification is a result of DEWA’s continuous efforts in occupational health and safety.”

The training courses will focus on QHSE in DEWA. They will incorporate workshops and lectures that shed light on the health and safety of DEWA staff and how to improve these systems and mechanisms of improving production and operational efficiency through a healthy and safe work environment.

GCC adopts UAE anti-cyber crime methods

CYBER SECURITY

The 11th GCC CERTS Committee has adopted the UAE experience in combating cyber blackmailing at a meeting attended by the UAE’s general authority for regulating telecommunication sector (TRA), represented by its subsidiary, the UAE Computer Emergency Response Team (aeCERT), held in Riyadh, according to WAM.

Hamad Obaid Al Mansoori, UAE TRA director-general, said, “This reflects the UAE’s success in combating cyber blackmailing and highlights its effective contribution to protecting the infrastructure of this vital sector at a local and regional level. Cyber security has become an integral part of our societies’ safety, and in light of the rapid developments in the ICT sector. With concerned parties, TRA is keen to develop innovative solutions and mechanisms that safeguard the sector optimally.”

Germany’s Ambulanz Mobile names Bristol VMD its GCC distributor

SAFETY VEHICLES

Germany-based Ambulanz Mobile has selected Bristol Vehicles Manufacturing Division (VMD), part of the Concorde – Corodex Group, as its sole distributor across the GCC. Bristol VMD is an Abu Dhabi-based rescue and safety vehicles manufacturer.

The agreement gives Bristol VMD the opportunity to customise Ambulanz Mobile vehicles according to specifications required by local emergency services including Abu Dhabi Police and Dubai Ambulance, said a statement from the company.

The partnership demonstrates Bristol VMD’s capacity to customise emergency vehicles at its 20,000 sq m assembly plant, testing facility and warehouse in the UAE capital. The vehicles will be assembled locally and fitted with medical equipment according to client demands, it added.

Mahmoud Awad, managing director of Concorde-Corodex Group, said, “To be able to take a vehicle built by Ambulanz Mobile to the highest European safety standards and customise it according to the specifications of our local clients is an aspect of our service

that we are proud of Bristol VMD is confident that emergency services throughout the region will be hugely impressed by the design, performance and safety features of the world’s most advanced ambulance. We expect strong sales growth for Bristol VMD as a result of this partnership.”

Awad highlighted the stringent crash tests that Ambulanz Mobile’s ambulances undergo at Dekra accident research facilities that ensures protection of crews and patients.

Bristol VMD sold 35 Ambulanz Mobile vehicles to Abu Dhabi Police in 2015.

Qatar University institute to launch worker welfare index

WORKER WELFARE

The Social and Economic Survey Research Institute (SESRI) at Qatar University has announced that it will come up with the first expatriate worker welfare index that includes key professional working and social conditions. The 'Guest Worker Welfare Index' is the outcome of a closed expert workshop convened in third week of February at SESRI.

Local and international scholars, stakeholders, and policymakers including and Qatar University president Dr Hassan Rashid Al-Derham mulled various topics on labour issues.

The welfare index will be based on the results of a semi-annual or annual survey conducted with more than 1,000 blue-collar guest workers in Qatar as well as official statistics, the paper says. Using data from the survey, SESRI will create an objective and reliable welfare index that will reflect the conditions of labourers



in Qatar and can also track changes in welfare over time. Explaining reasons why Qatar needs a worker welfare index, authors of the paper say, "Fierce international scrutiny and criticism of Qatar's *Kafala* system (foreign labour sponsorship), health and safety of workers building football World Cup stadiums, and conditions of labour camps were based on anecdotal interviews with a small sample of individual workers." "In providing a source of

unbiased data, SESRI aims to help avoid the spread of erroneous information based on personal impressions and unrepresentative cases." A consistent and scientific measurement of worker welfare is imperative for Qatar to demonstrate this success to itself and the world. A comprehensive picture of workers lives will give decision-makers the information needed to understand the impacts of their policies, and to identify areas of progress.

GE to modernise Kuwaiti hospital

PATIENT WELL-BEING

Kuwait Ministry of Health has announced that GE Healthcare and its partner Advanced Technology Company will support the expansion of Kuwait City's Al Amiri Hospital.

According to the ministry, the hospital is one of nine hospitals slated to undergo major infrastructure modernisation as part of Kuwait Vision 2030, country's national development plan. Al Amiri's expansion includes doubling its capacity with 460 additional beds and adding new diagnostic equipment to evaluate non-communicable diseases, which account for more than three quarters of deaths in Kuwait, according to WHO.

"This new contract builds on our ongoing partnership with the Ministry of Health to serve as a key technology provider in Kuwait," GE Healthcare Eastern Growth Markets president Maher Abouzeid said, adding, "Over the years, we have installed advanced solutions that promote improved diagnostics for various Ministry of Health facilities in Kuwait. We are committed to bringing newest technologies to support MoH in achieving its goals to modernise the country's healthcare infrastructure."

GE's Healthcare will install its Discovery PET/CT 710 to help doctors monitor tumour development; Optima MR450w scanner, an MRI machine designed to increase patient comfort and minimise the number of repeat scans; and its Revolution EVO, a CT scanner that works at a higher speed with less radiation exposure.

New manual warns about risks from tank gauges

HAZARD MANAGEMENT

OSHA and the National Institute for Occupational Safety and Health (NIOSH) have issued a warning about risks to oil and gas workers who manually gauge or sample fluids on production and flowback tanks.

In a free-to-download *Safety Special Report on the 50 Tips For More-Effective Safety Training*, the organisations say that the recent warning was triggered by a series of preventable deaths

related to manual gauging of tanks. OSHA and NIOSH identified nine fatalities to workers performing such tasks between 2010 and 2014.

Assistant labour secretary for occupational safety and health David Michaels said, "It's critically important that we all work together to make sure that oil and gas extraction workers are aware of life-threatening exposure and that they are protected."

The report also highlights research from OSHA and NIOSH showing that workers at oil and gas extraction sites may be exposed to very high concentrations of hydrocarbon gases and vapours when manually gauging or sampling production tasks. They may face the risk of fires or explosions. These activities can also result in oxygen-deficient environments, which can cause loss of consciousness and death.

→ events calendar 2016

March 2016

1-3	Middle East Electricity	DUBAI	www.middleeastelectricity.com
15-17	ISNR Abu Dhabi	ABU DHABI	www.isnrabudhabi.com
15-17	Firefighting Middle East	ABU DHABI	www.isnrabudhabi.com
22-24	The Health and Safety Event	BIRMINGHAM	www.healthandsafetyevents.co.uk

April 2016

12-13	Tank World Expo	DUBAI	www.easyfairs.com
17-21	SPIE DSS	BALTIMORE	www.spie.org
19-20	Fire Sprinkler International	MUNICH	www.firesprinklerinternational.com
27	IOSH Middle East	MUSCAT	www.iosh.co.uk

May 2016

8-11	TOS+H EXPO	ISTANBUL	www.toshexpo.com
9-12	SOFEX Jordan	AMMAN	www.sofexjordan.com
16-18	SSS Arabia	DAMMAM	www.sss-arabia.com

June 2016

21-23	Safety & Health Expo	LONDON	www.safety-health-expo.co.uk
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September 2016

5-7	OFSEC	MUSCAT	www.muscat-expo.com/ofsec
27-30	Security Essen	ESSEN	www.security-essen.de

October 2016

30-31	Gulf Safety Forum	DOHA	www.europetro.com/en/gsf2016
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Readers should verify dates and location with sponsoring organisations, as this information is sometimes subject to change.

New technologies to be showcased for MEA at Tank World Expo 2016

EXHIBITION NEWS

The Middle East's only tank storage event Tank World Expo 2016 will take place on 12-13 April 2016 at the Dubai World Trade Centre. The event will see the launch of new innovations and technologies for the Middle East and Africa (MEA) markets.

Terminal managers, technicians, engineers and other tank storage professionals who attend the show will see innovations from right across the supply spectrum that boasts

of major names including Emerson Process Management, Kanon Loading Equipment and Endress+Hauser through to the sector's most innovative niche suppliers.

Tank World Expo 2016 will also feature a two-day conference programme with 18 leading industry figures speaking from organisations such as the UAE Ministry of Energy, OTTCO, Oiltanking Odfjell Terminals Oman, Dubai Mercantile Exchange, Burgan Cape Terminals and CITAC Africa.

In 2015, there was a specialised focus on Fujairah, but the 2016 conference programme reflects the changing market place, with an increased focus on the UAE and greater GCC region, which is currently developing the world's largest terminal. With this in mind, Said Al Mawaali, project director at OTTCO, will be presenting 'Latest developments at the region's largest storage facility in Oman'.

Last year, exhibitors from over 50 countries participated at the show.

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How prepared is Riyadh?

With depressed oil prices and war raging within and around the Kingdom, there is an increasing pressure on Saudi Arabia to fight 'enemies' as well as restructure its defence security with a lower budget.

Recent incidents and ongoing threats in the Middle East region highlight the urgency in ensuring security.

BME Global

ABOVE: Saudi Arabia is facing a range of economic and security challenges. (Photo: rickyd/Shutterstock)

This year could be challenging for Saudi Arabia as it faces economic pressure from lower crude oil prices amid neighbourhood security risks, according to a new analysis.

Depressed crude oil prices across the globe, down more than 60 per cent from mid-2014, is hurting Saudi Arabia, which depends heavily on crude oil prices. Meanwhile, rising tensions with Iran and the wars in Syria and Yemen has led the government to allocate almost US\$57bn for military and security spending this year.

The Finance Ministry, in January, had reported total revenue for fiscal year 2015 at US\$162bn, a 15 per cent decline from budgeted revenues. Oil revenues were down 23 per cent from the previous year.

According to reports by UPI, coupled with rare plans for a stimulus package, Helima Croft, the global head of commodity strategy for RBC Capital Markets, said that this year could be a challenging one for Riyadh.

"The economic and security

headwinds continue to mount for Saudi Arabia due to the low oil price environment and the multiple conflicts raging in the region," she added.

Rising tensions

In January, this year a suicide bomber blew himself up and another attacker opened fire outside a Shiite mosque in the predominantly Sunni kingdom of Saudi Arabia, killing two people and injuring at least seven others, the state-run *Saudi Press Agency* reported.

Security forces confronted both attackers as they headed toward the Imam Ridha mosque in the town of Mahasen, in Saudi Arabia's al-Ahsa region in Eastern Province, where worshippers were holding Friday prayers.

According to sources, this was the fourth deadly attack on a Shiite mosque in Saudi Arabia — a kingdom where 85-90 per cent of the citizens are Sunni — since May last year. The previous three were claimed by Islamic State of Iraq and Syria (ISIS), the Sunni Islamist terror group, or one of its affiliates.

In mid-October, another ISIS affiliate claimed an attack of its own — a gunman opening fire on a Shiite mosque in the eastern Saudi Arabian city of Saihat. That attack killed at least five people.

In the latest volley of attacks by ISIS in February this year, a retired Saudi Arabian security officer was shot dead.

Concerted efforts

With internal tensions are on the rise, in the second week of February, a Saudi Arabian official confirmed that Riyadh has sent warplanes to Turkey's southern Incirlik airbase, a move considered as preparation for the campaign against ISIS.

Turkey's foreign minister Mevlut Cavusoglu said, "From the very beginning, Turkey and Saudi Arabia have been in favour of a ground operation in the fight against ISIS. We have been saying that there should be a comprehensive and outcome-oriented strategy."

Turkey and Saudi Arabia are part of the US-led anti-ISIS coalition, which officially comprises 65 members. Ankara

In February, Saudi Arabia teamed up with 20 other Arab, Islamic and friendly nations to launch the biggest military exercise ever staged in the Middle East region.



also granted the coalition access to Incirlik airbase.

Jordan's public security department (PSD) director general, Major Gen. Atef Saudi, and Saudi Arabia's ambassador to Jordan, Prince Khalid bin Faisal Al Saud, too have discussed ways of enhancing bilateral cooperation in security fields. The PSD director hailed the relationship between the public security departments in both countries as "strong" in the areas of security and policing.

Meanwhile, the US Department of State has approved a potential arms sale of more than US\$150mn to Saudi Arabia, the defence security cooperation agency said.

"The State Department has made a determination approving a possible foreign military sale to Saudi Arabia at an estimated cost of US\$155mn," the statement noted.

Saudi Arabia has requested a sale for the upgrade of five MK 15 Phalanx Close-In Weapons Systems (CIWS) currently aboard four Royal Saudi Naval Forces ships and one Naval Forces

School ship. Spare and repair parts, along with technical support and personnel training, are included in the cost. The proposed sale will help improve the security of a strategic regional partner, which has been and continues to be an important force for political stability and economic progress in the Middle East, according to the US agency.

Last month, Saudi Arabia also teamed up with 20 other nations to launch the biggest military exercise ever staged in the Middle East region.

Participating countries in the manoeuvre were the UAE, Kuwait, Bahrain, Oman, Qatar, Jordan, Egypt, Senegal, Sudan, The Maldives, Morocco, Pakistan, Chad, Tunisia, Comoro Islands, Djibouti, Malaysia, Mauritania and Mauritius.

The exercise constituted the largest-of-its-kind in terms of diverse, advanced military equipment and machineries which reflect the qualitative and quantitative spectrum of ground, air and naval forces of the participating countries.

The three-week exercise aimed

to consolidate military interoperability co-operation between Gulf, Arab and Islamic countries and upgrade combat readiness and efficiency.

No love lost with Iran

Relations between Sunni-majority Saudi Arabia and Shia-dominated Iran have never been particularly good, but with the execution of Shia cleric Sheikh Nimr al-Nimr on 2 January, relations have worsened.

The Saudi Arabian embassy in Tehran was attacked in the third week of January following the execution of the Shiite cleric.

With internal strife as well as strained relations outside, many experts have opined that 2016 is going to be "a tough year for Saudi Arabia".

RBC's Croft said that this year "could prove to be the year of living dangerously for the nation facing substantial economic and security headwinds".

Also, with sanctions removed from Iran, Saudi Arabia is a bit at unease. With the Kingdom heading towards Syria with troops, Iranian foreign minister

Mohammad Javad Zarif warned the Kingdom not to deploy troops there, saying it would violate international law, while also demanding that Riyadh stop its bombardments in Yemen.

Zarif, whose country supports the regime of Syrian President Bashar Assad, was referring to Saudi Arabia's declaration for deploying ground forces as part of the US-led coalition fighting ISIS. "I believe everybody should put forces together to find a peaceful solution, not to create more hostility in the region."

Saudi foreign minister Adel al-Jubeir, said after talks in Washington earlier this month, that any operation in Syria would be US-led but that Saudi Arabia would play a leading role.

These are but few of the differences both oil producing nations share.

With the its strong stance of fighting ISIS and dealing with internal conflicts, Saudi Arabia is already committed on several fronts. It is, therefore, vital that Riyadh carefully plans its domestic and international policies. ♦

— A report compiled from various news agencies and reports



Protecting internal affairs

The UAE capital is leaving no stone unturned to shield the emirate from danger.

Abu Dhabi Police has been on the forefront of enhancing national security in partnership with other countries.

ABOVE: The Security Media Platform is fitted with electronic equipment and modern software that monitor and keep track of emergency events in Abu Dhabi. (Photo: ME Newswire)

Abu Dhabi Police has announced the launch of its Security Media Platform — the first integrated and comprehensive operations room in the region. The platform is fitted with electronic equipment, modern software and high-quality techniques that monitor and keep track of emergency events round-the-clock in Abu Dhabi, in order to provide video material and live coverage effectively from incident sites to support decision-makers.

Major Fawaz Ali Abdullah, director of security media department at Abu Dhabi Police, said, “The platform operates according to standardised operational procedures manual and provides print and audio-visual media information to customers of the security media department, in response to emergency notifications and situations that are reported and handled by the media.”

First Lieutenant Yusuf Abdullah Al Hosani, general supervisor of the platform, noted,

“The Security Media platform is a fundamental pillar to support and reinforce the policing and prevention awareness of security media patrols staff members, in a way that further contributes to preserving security and stability, as they convey a transparent, balanced and comprehensive media message to media outlets.”

A recent Frost & Sullivan report projects the Middle East homeland security market to grow at three times the pace of the global average.

This growth is driven by economic diversification, large-scale infrastructure developments such as the Midfield Terminal Complex at Abu Dhabi International Airport, which is expected to handle 30mn passengers per year and 8,500 passengers per hour.

Major General Ahmed Nasser Al Raisi, deputy chairman of Higher Organizing Committee, ISNR 2016, said, “This growth is not reflective of worsening security situations in the region, but rather a positive foundation

for countries enhancing their security and resilience.”

Internationally too, Abu Dhabi Police has been on the forefront of enhancing national security in partnership with other countries.

In September last year, the Abu Dhabi Police and the US Department of Homeland Security discussed ways to enhance areas of police cooperation and coordination of training between the two parties.

A delegation from the USA, headed by Kathy Kraninger, clerk for the subcommittee on Homeland Security of the US Senate Appropriations Committee, also recently visited the Abu Dhabi Police Training department.

Meanwhile, Abu Dhabi Ship Building (ADSB), provider of construction, repair and refit services for naval, military and commercial boats, has signed a contract to supply the Kuwait Ministry of Defence to build and supply landing crafts and high speed protection vessels worth over US\$70.7mn. ♦



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Maritime sector: The new playground for cyber-attack?

The maritime sector – merchant vessels, ports and also oil rigs – are becoming increasingly vulnerable to a wide range of cyber risks, and numerous examples of actual breaches have occurred. However, cyber defences do not appear to have been developed to adequately address the threats being faced.



“Like rogue icebergs, the scale of the threat remains unseen.”

Willis Towers Watson

The increased use of computerised systems for everything – from navigation to container inspection – has enhanced the safety of seafarers and vessels at sea, and improved the efficiency of ports. But the industry move towards ‘smart’ ships, systems consolidation and global connectivity also has multiplied the potential impact of cyber-attacks in the maritime sector.

The International Maritime Organization (IMO) and the US Government Accountability Office (GAO) in the past several months have raised concerns about the appalling poor level of security preparedness across the maritime sector. The IMO says the threat of cyber-attacks in the sector has intensified and warns that shipping and supply chains are becoming the “next playground for hackers”.

Data on the extent of the maritime industry’s exposure to cyber crime is hard to come by with the number of reported incidents relatively low as most companies don’t want to ‘go public’ for fear of alarming clients, investors or insurers, industry experts say. Industry experts believe the maritime community has been

able to avoid media coverage, not because it is immune from cyber threats but mostly because of luck, timing and the desire to keep the incidents under the radar. Other than for cyber-breaches of financially-regulated data and personally identifiable information, there is no mandatory reporting.

“So, like rogue icebergs, the scale of the threat remains unseen,” says professional services, insurance brokerage and risk management firm, Willis Towers Watson.

Merchant shipping is in the midst of a wholesale adoption of various e-navigation and integrated identification systems (AIS) to supplement marine radar, the chief method of vessel detection, positioning and collision avoidance, Willis Towers Watson explains. The IMO, via The International Convention for the Safety of Life at Sea (SOLAS), has made the adoption of AIS mandatory for vessels above a certain size. Vessels also are embracing GPS and electronic chart display and information systems that are often integrated with a company’s AIS.

Both AIS and GPS, as well ECDIS, have been proven to be

vulnerable to hacking and gaining access to these systems could give criminals the ability to disable or multiple ships transiting strategically important waterways,” says Willis Towers Watson.

In 2011, the Iranian shipping line IRISL, for example, suffered a wide-reaching cyber-attack, damaging data related to rates, loading, cargo numbers, delivery dates and places. As a result, the locations of certain containers could not be identified and even though the data was recovered eventually, a considerable amount of cargo ended up in the wrong locations, or was permanently lost.

There also has been incidents where a floating rig was shut down by hackers by tilting it, while another rig being moved from its construction site to its drilling location became so infected by malicious computer software that it had to be shut down for 19 days in order to fix the issue.

Ports use similarly vulnerable integrated systems and software to track and manage the transit and handing of cargo, as well as terminal operations, and

ABOVE: Ports and their cargo can be lucrative targets for terrorists and criminals. (Photo: vitalez)



consequently also are lucrative targets for terrorists and criminals.

A recently reported incident revealed that the Belgian port of Antwerp had been subjected to a persistent cyber-attack that had been ongoing since June 2011. The penetration allowed the attackers to have remote access to the terminal systems, and consequently were able to release containers to their own truckers without knowledge of the port or the shipping line.

In addition to recent reports regarding the hacking of oil rigs and the manipulation of GPS, AIS and ECDIS, the marine bunkering community has suffered substantial losses due to cyber-attacks. According to Copenhagen-based maritime cyber security firm, CyberKeel, the fuel supplier World Fuel Services a couple of years ago fell victim to a bunkering scam reported to have cost the company an estimated US\$18mn, in what was described as a cyber attack. Last August, it was reported a Cyprus-registered shipping company was the victim of a fuel supplier scam that reportedly cost the company some US\$644,000.

CyberKeel found that 18 of 20 of the largest container shipping lines were vulnerable to cyber-attacks, including methods called 'click-jacking', tricking shippers into giving away usernames and passwords by leading them onto a fake website, hosting a perfect copy of the company's genuine website.

But in the past couple of years, the maritime sector has slowly begun to recognise, acknowledge and address the need for greater information-sharing and the need to develop maritime cyber security regulations and guidelines. While the industry does not currently have any cyber security regulations, change is on the horizon.

Last year, the US Coast Guard launched a year-long initiative to fully understand the cyber threats facing the industry with the ultimate goal of developing cyber security guidelines. Halfway through this initiative in June, the Coast Guard issued a Cyber Strategy, summarising its vision for operating in the cyber domain. The Cyber Strategy discusses the Coast Guard's approach to defending cyberspace, including risk

assessment and risk management and the strategic priority of protecting critical maritime infrastructure, which includes ports, facilities, vessels and related systems that facilitate trade within the USA.

After taking a decision back in 2013 to engage in the issue of cyber security for ships, the world's largest international shipping association, the Copenhagen-based Baltic and International Maritime Council (BIMCO), in early January launched a set of guidelines to help the global shipping industry prevent major safety, environmental and commercial issues that could result from a cyber incident onboard a ship. The cyber guidelines, developed in association with other leading international shipping associations, namely the International Association of Dry Cargo Shipowners, the International Association of Independent Tanker Owners, the International Chamber of Shipping (ICS) and Cruise Lines International Association (CLIA), are a first for the shipping industry.

Angus Frew, secretary general and CEO of BIMCO, says the aim is to provide the shipping industry with clear and comprehensive information on cyber security risks to ships, enabling shipowners to take measures to protect against attacks and to deal with the eventuality of cyber incidents.

Cyber threats are changing all the time, and BIMCO and the other involved industry associations will regularly update the cyber guidelines to ensure shipping companies have all of the latest information available.

Frew says shipping companies need help to take a risk-based approach to cyber security that is specific to their business and the ships they operate.

While increasingly many in the maritime industry now accept the reality of cyber crime and realise just how vulnerable the sector is to cyber-attacks, the sheer size and diversity of the industry and the constantly changing nature of cyber threats, mean the cyber risk and its potentially devastating fall-out is an issue that is not going to be resolved anytime soon. ♦

HSE hazards can break your business

Sam Achampong, general manager of The Chartered Institute of Procurement & Supply (CIPS) for MENA, talks about safer procurement practices.

“To ensure your business is effectively protected from risks, we recommend you give your supply chain management function a healthy check-up.”

Fast moving and fast changing, the ‘on-demand’ economy is revolutionising labour services, business models, and inevitably the procurement and supply management profession at its heart. Consumers are becoming more demanding and expect services such as ‘click and collect’ or ‘next day delivery’ as standard — all of which puts additional pressure on companies to deliver and outperform their competitors with too little emphasis on the health and safety regulations governing business.

In January 2015, Tesco Supermarket did not take health and safety hazards into consideration during the manufacturing phase. Following the busy Christmas period, it was revealed that the products “may have poorly stitched seams” — which were potentially a choking hazard for

children. Another example is the fire which broke out last May in a footwear factory in the Philippines, killing 72 people. This was found to be as a result of lack of HSE standards.

As the Middle East engages in more trade with global organisations, the evolution of health and safety regulations is becoming an important issue for many businesses in the region. When sourcing projects, assessing health and safety policies is more than just checking a compliance box — it is making sure the whole chain of activities in the business process, including procurement department is proactive towards seeking these safety measures. It is imperative that the procurement process is robust enough to mitigate potential supply risks, increased operational costs and reputational damage, and businesses must understand more about their suppliers as a result.

However, these risks are not just limited to the sourcing of goods or the manufacturing industry.

As more and more companies choose to engage with service providers for the provision of their services — such as security,

cleaning and maintenance — the emphasis on only evaluating the ‘unit’ cost of the personnel provided is a flawed one. Instead, they should focus on properly evaluating what an effective ‘person’ would need to carry out the services required in the most efficient way.

To ensure that business is effectively protected, we recommend you give your supply chain management function a healthy check-up and ask —

- 🌐 Do your supplier appraisal procedures include due diligence all levels of your supply chain?
- 🌐 Are the products or services you procure compliant with prevailing international standards and practice as applicable to the region?
- 🌐 Are your service providers’ proposed methods of delivering services scrutinised to ensure that they do not present undue hazards to themselves, staff and the public?
- 🌐 Is health, safety, security and sustainability given the appropriate weighting when evaluating proposals and making procurement decisions? ❖



CIPS' Sam Achampong.

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Fit to perfection

Alan Murray, chief executive of British Safety Industry Federation (BSIF), highlights the fact that for respiratory protective equipment (RPE) to protect, it must fit the user's face.

RPE are used in many workplaces to protect workers when working with hazardous substances such as gases, solvents, powdered chemicals and sprays.

In the UK, HSE's Approved Code of Practice (ACoP), governing the control of harmful substances in the workplace, states that one should only use RPE after they have taken reasonably practicable measures to prevent or control exposure. By going through the risk assessment process required by these laws, one can determine whether the use of RPE in the workplace is appropriate.

In the data sourced from the IOSH Middle East Annual Conference in 2014, it was revealed that 25 per cent of the UAE companies do not provide RPE to their employees, leaving their workers exposed to respiratory illnesses and physical dangers. In addition, only 18 per cent of construction companies in the Dubai Municipality conduct regular health and safety training, which appears to demonstrate a crucial lack of understanding by construction companies of the importance of health and safety.

Using RPE can play a vital role in the protection of the health of the employee. However, research in the UK has shown that up to half of the RPE currently in use does not provide the wearer with the level of protection expected.



One of the major reasons for this is that it simply does not fit. For all tight-fitting RPE face pieces — this includes disposable masks, half masks and full face masks — it is a legal requirement in the UK that, at initial selection of the product for the employee, the face piece is specifically 'fit tested' to the wearer. RPE must be 'adequate' and 'suitable'. Adequate means that the RPE is right for the hazard and reduces exposure to the level required for protection of the wearer's health, while suitable means that the RPE is right for the wearer such that they can work freely.

Even after all the work involved in the risk assessing process, an RPE is selected, yet the protection may not be provided because it has not been fit tested. This may be because they lack the knowledge, skills, experience and understanding of fit testing and how it should be carried out.

RPE Fit Testing by the Fit2Fit

scheme, developed by the BSIF and supported by the UK HSE, carries out appropriate tests for the correct kits.

"At Fit2Fit we know that (as of December 2015) 35 per cent of those that sit the accreditation fail to demonstrate competency. Users need a competent face fitter to ensure that their RPE programme is not compromised and must insist that their face fit provider has been deemed competent and they are Fit2Fit accredited," Murray says.

The BSIF accreditation enables an individual to learn the 'tricks of the trade' and, once accredited, to be able to demonstrate that competence to those that require RPE face fitting services.

Where there is a risk of respiratory illnesses that can't be mitigated at source and where RPE has been deemed appropriate, it must be fit tested to the wearer to ensure that it is suitable for their protection. ♦

ABOVE: Fit2Fit accreditation provided by BSIF. (Photo: BSIF)



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Intrigue and interest at Intersec

The world's largest trade fair for security, safety and fire protection attains double-digit growth and visitors from 127 countries.

“Intersec continues to showcase the latest global trends and developments to regional buyers.”

Ahmed Pauwels,
CEO of Messe Frankfurt Middle East

Intersec marked its return to Dubai World Trade Centre in 2016 with a 15 per cent increase on visitor numbers on the previous year's edition and more than 31,261 visitors from 127 countries in attendance.

Along with a number of product launches at the event, Intersec 2016 proved to be more widely representative than ever before, as the show outlined its position as the industry's premier show window and preferred launching pad.

Building on growing demand across the Middle East for enhanced safety and security systems, and the huge ongoing investments in new commercial and civil infrastructure, the show witnessed 2,400 brands being showcased by 1,290 exhibitors from 55 countries.

Ahmed Pauwels, CEO of event organiser, Messe Frankfurt Middle East, commented, “Intersec has continued to showcase the latest global trends and developments to regional buyers as well as facilitating invaluable interaction through an on-going exchange of ideas and knowledge dissemination.”

More than 80 per cent of participating exhibitors were

from international markets, while 2016 saw the highest level of participation by UAE exhibitors, whose numbers were up by eight per cent over the previous year.

Fire and Rescue, which was 27 per cent larger than the previous year, recorded the fastest growth at this year's event with the section witnessing huge interest from trade visitors, while the Information Security section, which attracted buyers searching for the latest in cyber protection systems, enjoyed heavy footfall.

The Smart Home Automation section, which made its debut this year, also caught the attention of trade visitors and industry professionals, with the Middle East expected to constitute almost 10 per cent of the global Smart Home market.

Among the big names presenting their solutions at this year's show were Schneider, Fermax, Assa ABLOY, Honeywell, Xtralis and CP Plus, all of whom were on hand to demonstrate their latest products and systems including energy management systems, HVAC control, entertainment control, security and access control.

The event witnessed as many as 100 new product launches and,

according to the event's organisers, exhibitors across the spectrum expressed their satisfaction at the business opportunities generated over the three days.

Paul Shaw, marketing manager EMEA at Scott Safety, remarked, “The show is a great opportunity for us to display our products and to get feedback from the customers and visitors on the same. Some products have been launched at the show.”

Gregor Steiner, head of product marketing at Siemens, noted, “It was really good for us as we had about 60 per cent more visitors than we expected.”

Other new additions and features at this year's edition of Intersec included a Safety Design in Buildings Pavilion in the Fire & Rescue section, a dedicated Jobs & Careers Pavilion, and a busy schedule of industry conferences held in cooperation with the Dubai Police and Dubai Civil Defence.

The event, held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, Intersec is the flagship event of Messe Frankfurt's global network of 11 security and safety shows. ♦

Concorde-Corodex introduces structure-piercing firefighting system

FIRE SAFETY

PyroLance, which tackles interior fires by propelling high-pressure liquid through solid materials such as steel and brick, was introduced by Concorde-Corodex Group to UAE Civil Defence and region-wide during Intersec 2016.

Along with displaying the firefighting tool during this year's Intersec, the UAE-based company has been displaying the equipment to civil defence teams throughout the emirates.

The PyroLance handset has the ability to propel an ultra-high-pressure stream of water or foam through materials including brick, marble, concrete and steel plate, which allows fire crews to safely

control fire before entering burning structures.

According to its supplier, the technology is being tested by fire experts and civil defence teams throughout the UAE, having undergone live demonstrations at Intersec 2016. Corodex Agencies and Corodex Trading – two

companies within the Concorde-Corodex Group – will be the sole distributors and suppliers of PyroLance in the UAE, Oman and Qatar, and the first to introduce the US-manufactured system to these countries.

Concorde-Corodex Group managing director Mahmoud

Awad commented, "PyroLance is a game-changing system that will have a huge impact on regional firefighters' ability to control fires in enclosed spaces – which are notoriously dangerous and difficult to extinguish – while keeping them out of harm's way.

"With the correct training, PyroLance will provide firefighters throughout the region with a safer means of fighting fires in a range of hazardous environments and a surgical tool to access fires where conventional means fail."

Awad described the live demos at Intersec as "a high-effective and dramatic means of displaying the power and versatility of this incredible tool".



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The magazine's circulation claims are independently verified by an ABC audit

Smiths Detection unveils security system

X-RAY DETECTION

Smiths Detection unveiled the HI-SCAN 6040C (HS6040C) X-ray scanner at Intersec 2016 as part of its commitment to next-generation security systems that aim to strengthen the UAE's homeland security infrastructure.



Paul Baker, regional managing director Middle East for Smiths Detection.

The HS6040C has been designed to detect current and future threats to key establishments and features an advanced X-ray system designed to screen hand-carried items at the entrance of critical infrastructure assets such as government buildings, hotels, exhibition centres and sporting facilities.

Paul Baker, regional managing director Middle East for Smiths Detection, said, "Security incidents in public spaces around the world demonstrate how vulnerable our society can be. Our new HS6040C X-ray inspection system is tailored to the security needs of areas where large numbers of people come and go every day. "The upgraded

electronics and software ensure that it is prepared for both current and future security requirements for critical infrastructure assets in the UAE and wider Middle East".

The high quality of the HS6040C's X-ray images makes detection of potential threats simple and minimises errors, according to the company. Intelligent image display functions support the operator by distinguishing between organic and inorganic materials on the screen, which can prove particularly important for the rapid detection of explosives, weapons, drugs, food or money.

The HS6040C meets the requirements for the screening of bags, packages and other objects for prohibited or dangerous items in buildings, and its compact design ensures it will fit easily into any entrance area. Smiths Detection said that the electronics and software of the machine can be easily upgraded to meet future security requirements and scan for new or specific threats efficiently.

Saudi university opts for IDIS solution

SURVEILLANCE

Intersec exhibitor IDIS has delivered a comprehensive IDIS DirectIP™ HD surveillance solution for Majmaah University in Saudi Arabia.

The surveillance solution aims to enhance safety for students and staff across multiple campus sites. The main campus is located in Majmaah city, with key satellite sites in Hawtat Sudair and Alghat. Teaching and research is delivered through 13 academic schools and around 20 buildings across its key campus sites located almost 50 km apart.

The university security team chose the integrated IDIS DirectIP™ solution in collaboration with security systems integrator Digital Media. The networked solution includes 336 pan-tilt-zoom (PTZ), box, dome and infra-red bullet cameras; 18 network video recorders (NVRs); a suite of ISS Expert servers and clients; and 16 DAS systems. A new command centre at Majmaah was also set up and fully equipped with control equipment.

Scott Safety debuts world's first camera with hot and cold-spot tracking

FIRE SAFETY

The world's only camera with hot-spot and cold-spot tracking made its debut to the Middle Eastern fire market at Intersec 2016.

Scott Safety, a global leader in the design, manufacture and supply of respiratory protective equipment, gas detection and thermal imaging technology, showcased the capabilities of its X380N thermal imager with ISG Technology. The equipment enables firefighters to obtain better situational awareness of a fire scene.

Firefighters using the technology are able to instantly see and create paths through cooler spots and avoid the highest risk areas such as floors or ceilings likely to collapse in a blaze. The cold spot tracker enables first responders to locate and pin point thread or valve gas leaks as gas that will be colder in temperature than the environment surrounding it.

Scott Safety also showcased its next generation of respiratory protection at the show in Dubai, including the latest addition to its self contained breathing apparatus (SCBA) range,

the ProPak-fx, which has been designed to meet the demands of professional fire services. The entire ProPak range has been approved to EN137:2006 Type 2, incorporating the stringent Full Flame Engulfment Test.

Scott Safety marketing manager Paul Shaw said, "The technologies can be fixed or portable to provide intelligence on the specific makeup of the fire and highest risk factors."

In 2011, Scott Safety opened a training, servicing and assembly facility in Abu Dhabi in to support its growing regional customer base.



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Securing homes across the region

MENA's national security and resilience event, ISNR Abu Dhabi, is back this year with a special emphasis on the world of home security systems.

The changes in consumer preferences are forcing vendors to deliver innovative residential security solutions with high efficiency.

International Exhibition for National Security and Resilience (ISNR) 2016 will take place at the Abu Dhabi National Exhibition Centre (ADNEC) from 15-17 March. The event will broadly focus on homeland security, national resilience, information security and critical infrastructure security.

At this edition of ISNR, the global home security system market will receive some limelight as a high potential market projected to grow at a rate of above 13 per cent, according to the *Global Home Security System Market 2015-2019* report.

Rising incidents of security concerns have led to increased safety measures by residential dwellings. Parallel to this, advancement in technology and emergence of smart homes has led to the rise of integrated home security systems, which can be connected to smartphones enabling users to monitor residences from remote locations.

With increasing investment in R&D and the introduction of many innovative applications and solutions, the main aim of vendors is to reduce the cost of expansion, storage, and maintenance of security



solutions. The changes in consumer preferences are forcing vendors to deliver innovative residential security solutions with high efficiency.

New and maturing sectors and technologies such as standoff people & vehicle-borne IED detection, cargo screening, cyber security, airport perimeter security systems, automated border control kiosks, and advanced ICT Technologies have created new market niches and fresh business opportunities in airport security technologies.

ISNR 2016 deputy chairman of the higher organising committee Major General Dr Ahmed Nasser Al Raisi said, "The regional mega-events that will be hosted by the region alone are driving infrastructure investment of up to US\$700bn between now and

2020. These investments include residential and commercial construction, transportation infrastructure, and public utilities; all of which must be protected with advanced security systems and solutions."

Segmentation of the home security system market by product are electronic and smart locks, alarms, security cameras, security solutions, DIY home security and sensors and detectors. In 2014, the security cameras segment of the global home security system market noted the highest contribution of close to 22 per cent, and this trend is expected to continue in the next five years. There will also be two events co-located with ISNR 2016 – Firefighting Middle East and Occupational Safety and Health Middle East. ♦

ABOVE: One of the safety demonstrations showcased at ISNR previously. (Photo: ISNR)



Upping defence for a safer workplace

The 2016 edition of SSS Arabia will focus on industrial security in particular as the need for safety and security of industrial facilities continues to grow rapidly within the Kingdom.

Despite the drop in oil and gas prices over the past year, Saudi Arabia has maintained a high budget of spending within the security services sector.

ABOVE: The exhibition will bring together buyers and suppliers of industrial security from around the globe. (Photo: BME Global)

Launched in 2011, Saudi Safety and Security Forum – also known as SSS Arabia – regularly features a combination of workshops, exhibitions and conferences on security, fire and safety. SSS Arabia returns this year in the form of a three-day event from 16-18 May at the Dhahran International Exhibitions Center in Dammam.

SSS 2016 will maintain the workshop-led format, using a mix of presentations, case studies and group exercises, focusing on safety, fire and health regulations within work environments with special attention towards the construction and heavy industry. Apart from these, the organisers confirm this year's event will cover industrial security and critical infrastructure owners.

The government's privatisation plans have triggered considerable security upgrades within the

power, telecommunications, air-travel, water, oil and gas, railways and petrochemical sectors.

Saudi Arabia has become one of the world's fastest growing markets for safety and security solutions. Despite the drop in oil and gas prices over the past year, Saudi Arabia continues to have a high budget of spending within the security services sector. The government has allocated almost US\$57bn for military and security spending, according to the 2016 budget plan.

According to a report by TechSci Research, *Saudi Arabia Managed Security Services Marketing Forecast and Opportunities 2010*, the security services market in Saudi Arabia is expected to reach US\$3.5bn by 2020. With the growing need for development within these highly important sectors in Saudi Arabia, SSS provides a unique opportunity

to source new businesses as the security sectors become a matter of urgency with the region.

Alongside the workshops, the international exhibition will also display innovative technologies and products. SSS 2016 has already received an unprecedented level of interest, according to the organiser BME Global, who also announced that Saudi Arabia Basic Industries Corporation (SABIC) will be supporting the event as principal sponsor. With more than 2,000 visitors, the SSS exhibition will offer ample opportunity to network with private companies offering solutions in the fire, safety and security space. ♦

For more information please visit www.sss-arabia.com, or contact James Lamb, email: james@bme-global.com, Tel: +44 203 328 9581



MEE to host inaugural regional Power Congress

The region's leading power showcase will introduce a congress for regional government, regulators and stakeholders to discuss the key to powering purpose built cities, and best practice on supporting energy innovation.

“Middle East Electricity continues to maintain its growth in spite of the challenging market conditions.”

Anita Mathews, director, Informa Energy Group

ABOVE: More than 60,000 visitors are expected to flock to Dubai World Trade Centre for MEE 2016.

Middle East Electricity (MEE) will open its doors for the 41st time in March and will witness the launch of its inaugural Power Congress, which is set to bring together a selection of the region's pioneering and governing minds on sustainable energy, power security and regional growth strategies.

Hosted by the UAE's Ministry of Energy, the one-day congress will be made up of five high-level keynote sessions covering energy development and management throughout the Middle East.

The congress will look to address how regional governments have been acting to redefine what is possible in urban development and what support is planned for greenfield cities such as the Expo 2020 site and numerous new residential and business communities.

UAE Minister of Energy H.E. Suhail Al Mazrouei will deliver the opening keynote session during which he will discuss new

ways in which the Ministry is aiming to balance power economies with power requirements, as well as sharing his long-term vision toward sustainability in the UAE.

Other government spokespersons will include H.E. Dr. Omar Kittaneh, Minister of Energy and Natural Resources, State of Palestine, who will discuss ways in which the territory is rethinking how best to meet its growing energy requirements and how supporting widespread solar could potentially improve Palestine's energy efficiencies, energy supply and energy independence.

Influential power platform

Today, MEE is the world's largest power event. The 2016 edition of MEE will have more than 1,500 exhibitors from 62 countries in attendance, along with 24 government-supported country pavilions from across Europe, Asia, Americas and Africa. The exhibition and supporting

conference are expected to attract close to 22,000 unique visitors this year, with a total attendance across the three days estimated to reach 60,000.

Major players on the show floor will include Cummins/Stamford AVK, Perkins, Skipper, Alfanar, Ducab and ABB.

Leading features at this year's edition of MEE will include the popular solar-focused conference, The Solar Agenda; a range of Technical Seminars during which exhibitors will be able to explain their technologies in depth at various locations throughout the show floor; and the 'Power Over Fire' truck, which Ducab, in partnership with The Civil Defence, will be stopping off at the event as part of its campaign to highlight the current British Standards for Fire Performance cables.

The event will take place from 1-3 March 2016, returning to regular venue Dubai World Trade Centre. ♦ www.middleeastelectricity.com



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The CAT logo is positioned in the top right corner, featuring the letters 'CAT' in a bold, black, sans-serif font above a stylized black triangle representing a mountain peak. The logo is set against a bright yellow square background.

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New ATG grip gloves ensure fewer cuts

GLOVES

Not many understand but grip is indeed the new safety feature in a glove.

Surely, gloves do offer grip but the feature is to do with the type of grip, the safety they deliver and the additional benefits that come with them.

Worker comfort is always one of the first things



employees need to consider when selecting or trying on a glove. Is it comfortable? Does it offer the needed dexterity, flexibility and tactility? Gloves that offer more cut resistance are often more bulky, working against the other metrics. then lies the question of protection versus comfort. It is fundamental to get this right, since bulky gloves are taken off for precision-handling tasks, leaving bare hands exposed to the risk of a cut. This is why many case studies conclude that using gloves with a higher cut resistance will not necessarily reduce the injury frequency rate (IFR).

To tackle this problem, ATG now offers world's first biomimetic cut-resistant glove — MaxiFlex® Cut™.

The gloves are cut-resistant too. Increasing the cut resistance often treats cuts rather than affecting the hand movement. Simply put, if they don't slip then they cannot injure the hands more. Used correctly, a glove with ANSI cut level 2 / EN level 3 with the right grip can be as effective, if not more, than a glove with ANSI cut level 4 / EN level 5.

By using thinner gloves like MaxiFlex® Cut™, there will be an increase worker acceptance through better hand comfort.

Lesser hand fatigue can also be experienced with glove grip enhanced by mere five per cent. With the ErgoTech® technology platform, ATG has ensured that the super thin gloves are effective as well as lighter.

Safety shoes from Technoavia

FOOTWEAR

Technoavia's new series of safety footwear — CAPTAIN — is ideal for engineers, technicians and managerial personnel. Apart from providing comfort to the wearer, they also look presentable and elegant, the company said.

The upper is made of smooth, high-quality, genuine leather. A dual-layer, shock absorbing, oil- and petrochemical-resistant sole, made of polyurethane and frost- and heat-resistant nitrile rubber reduces shock loads and provides and slip-

resistant specifications. It also ensures good traction and is self-cleaning owing to a special tread pattern, according to the company.

The CAPTAIN series footwear features a composite toe cap for forefoot protection against impacts (200 J and MIL 200), with an additional pad providing excellent compression resistance.

A lining made of dermodry coolmax and on steam fabric, together with a biotec removable insole, provides for moisture absorption and a high degree of foot comfort.

Dickies launches new coverall for Middle East region

CLOTHING

Workwear brand Dickies has launched ME220 coverall to protect workers in the Middle East region.



Made with lightweight 100 per cent cotton, the coverall keeps the American traditional styling that has been popular for years, according to the US company.

“Made in our own factory, the ME220 is the perfect garment for hot and humid environment featuring a special fabric, which is industrial laundry-friendly, wrinkle-resistant and durable. The ME220 also has moisture management properties. The garment absorbs moisture from the skin allowing fast dry to keep the wearer comfortable,” Dickies has said in a statement.

The coverall is available in Dubai in various colours and sizes, the company added.

TECHNICAL REVIEW

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Do away with offshore garbage the MAC way

The first containerised garbage converter by Marine Assets Corporation (MAC) not only disposes of waste, but makes it 'disappear' altogether. An exclusive report by Health, Safety & Security Review Middle East.

“The converter system is a perfect fit with our own environmental policies and sits well in our portfolio of products and services. We are delighted to have signed a contract with MAC to supply the converter container, complimenting it with our own service and maintenance facilities.”

MI SWACO, part of Schlumberger group of companies and one of the strategic partners working with MAC in the region.

*TOP OF PAGE 35: The Garbage Converter container by MAC, currently undergoing trials at Specialist Services LLC facility in Abu Dhabi.
(Photo: MAC)*

As the world's population continues to expand and technology advances ever further, garbage production continues to increase along with associated problems such as stench, harmful bacteria and pollution, leading to disease and untold misery for many.

Now imagine that garbage as we know it became a thing of the past and that there was a system to convert it into a useful fuel, with an added byproduct – water. Imagine also the implications this would have on mankind, wildlife and the environment.

Marine Assets Corporation (MAC), along with its partners, has developed a unique containerised system to do exactly this. Launching first in the Middle East, the Garbage Converter Container can tackle waste from onshore and offshore facilities and remote islands as well as municipal, retail and domestic waste.

To deal with larger volumes of waste offshore, the company has also developed the Garbage Converter Vessel, designed to deal specifically with garbage accumulating on remote oil rigs and remote offshore facilities. The vessel collects rig garbage on-board and converts it into refuse

derived fuel (RDF) whilst operating in the field, reducing the need for costly trips back and forth to shore. The vessel can, at the same time, be utilised as a supply and emergency vessel equipped with firefighting equipment, as well as deploying oil spill and recovery systems.

Andy Walker, sales director at MAC, says, “We looked at the current problems specifically offshore and quickly identified that firstly, there is problem with garbage; secondly, nobody appeared to be doing anything about it; and thirdly, the problem is getting bigger by the day.”

The DNV-specified containerised unit reduces the volume of the waste by up to 80 per cent whilst also reducing the weight by as much as 50 per cent by utilising its unique patented evaporation technology to remove the water content from the garbage.

The concept

Raw garbage, either loose or in bin bags, is thrown into the converter chamber and the lid is closed, creating a vacuum environment. Once the cycle begins, the blades inside the chamber rotate at a high speed to grind and macerate the waste.

The resultant friction causes the garbage temperature to rise to around 85°C, releasing the moisture content of the garbage. Once the moisture content is removed the temperature, again through friction, rises to around 115°C, which sterilises the waste. Due to the vacuum environment created by the process, there is no smell during or after the cycle. Safety and shutdown features protect the system at all times during the cycles, along with user identification and password protection to avoid unauthorised access and operation of the system.

The outcome

Dry, sterilised inert processed garbage or RDF resembling ‘fluff’, is then dispensed into a holding bin that contains a sealable vacuum bag. The RDF can be stored for months before being used as a fuel substitute or being disposed of.

In essence, the process allows for the equivalent of eight fully-loaded garbage bins to be converted into one bin of dry, sterile fuel substitute. The converter can treat materials including food, plastics, glass, rubber, paper and tins.

Each cycle is complete in

between 25-35 minutes depending on the moisture content of the waste. Under normal conditions, the converter container can process the garbage of a rig with a personnel on board (POB) complement of up to 250 people who would normally generate, on average, around 500 kg of garbage per day. This particular converter container can process around 35 kg per cycle with a mixture of wet and dry garbage. Larger machines are capable of processing 500 to 1,000 kg in a single cycle and are also available from MAC.

The current containerised system produces around 15 litres of water per cycle, again depending on the initial moisture content. This can be used for irrigation, further purified for use in processes or sent directly to the sewers.

Walker revealed that during recent trials and demonstrations for prominent oil and gas companies in the UAE, the response was incredibly positive, with attendees impressed with the machine's QHSE, environmental and operational cost reduction benefits as they continuously strive to find new and innovative ways to help the environment and develop greener policies within the industry, whilst reducing costs to their own operations.

"We initially looked specifically at the oil and gas sector; however, it soon became clear that garbage is a problem faced by everyone," says Walker.



"We identified the generic garbage problem with each industry specifically in the UAE and worked with this in mind. Now we have a solution for dealing with everyone's garbage.

"We don't expect to change the world's garbage problem overnight; however, by tackling it head on we hope to begin to make a difference changing people's perception of what garbage is as well as what it can be transformed into, as we make inroads towards zero landfill in the future," he adds.

Two units have already entered the market, and MAC is now looking to increase its fleet this year and beyond.

Speaking about the garbage converter being essential and critical for offshore operations, Walker says, "The biggest task for offshore operators is to reduce costs. Utilising the Garbage Converter Container reduces waste volumes by 80 per cent, which directly impacts the transportation of that waste. The fact that the waste is now essentially a fuel and a desired commodity is an added bonus, the sale of which can be offset against either purchase or rental

costs. From a QHSE perspective, the hazards that rotting waste presents are also removed, protecting personnel from bacterial infections, vermin and food poisoning, thus further reducing down time and cost. The storage of the processed RDF is easier and cleaner, and clients that utilise the system don't have to worry about carrying their hazardous garbage around. It really is an economically-sound proposition."

The converter container series is housed in a standard 20' ISO container and is used for treating general household, organic and infected waste. The unit's weight is around 12,000 kg and consumes power at 140 amps 3 phase 400 volts. The design concept is "plug and play", allowing very fast mobilisation, installation and maintenance of the units. It is easy-to-operate and is password protected.

The low maintenance converter is marketed in the UAE and Gulf region by Marine Assests Corporation DMCC, along with its strategic partners.

The units can also be customised for hazardous zone 2 areas if and when required.

The containers are also very scalable – a 10-foot container is available, designed specifically for use on jack-up rigs where space is at a premium.

Large converter machines can also be purchased from MAC as standalone fixed systems dealing with large quantities of waste. For a central processing facility MAC will specify, install, commission and maintain a purpose-built converter system.

"As long as garbage exists and continues to be produced, we will try to convert as much as we can into a useful commodity instead of dumping it out of sight where it damages the environment, pollutes our natural resources and heaps misery onto people less fortunate than ourselves," concludes Walker. ❖

For more information, please contact andy.walker@macoffshore.net

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Bauer Kompressoren launches integrated solutions

TECHNOLOGY

Bauer Kompressoren has unveiled an all-in-one high pressure breathing air system named Unicus 4i and B-Blending nitrox system for divers.

According to Bauer Kompressoren, the Unicus 4i is easy-to-use and offers firefighters efficiency and security, featuring a 12-inch HMI integrated touch screen. Optional features also include a proprietary Gas-Tek gas monitoring system, RFID Readers between the system and cylinders and Lab on Locale 2 for real-time air sampling and testing.

The B-Blending from Bauer Kompressoren enables safe and secure nitrox blending. The



The B-Blending system from Bauer Kompressoren.

watchword drives the development of all Bauer Kompressoren products and is appropriate for the new, optimised B-Blending nitrox blending system. Ease of handling and user safety are important factors for Bauer Kompressoren,

which the company ensures are met when nitrox is present.

The B-Blending system, a mixture of oxygen content, is controlled automatically by the B-Control II compressor control unit. It is now available together with Bauer Nitrox Compressors

and can be used with mobile or stationary compressor models.

The blending process itself is protected by dual safety measures as the mechanically controlled oxygen content cannot rise over 40 per cent during compression.

The right level of O₂ blend is continuously assessed by the control unit using a long-life calibration-free sensor to reliably measure O₂ levels.

The compressor shuts down as soon as a deviation from the setting is detected. All components and lubricants are suitable for use with O₂, while the pre-set operating temperature of the compressor is controlled by temperature sensors.

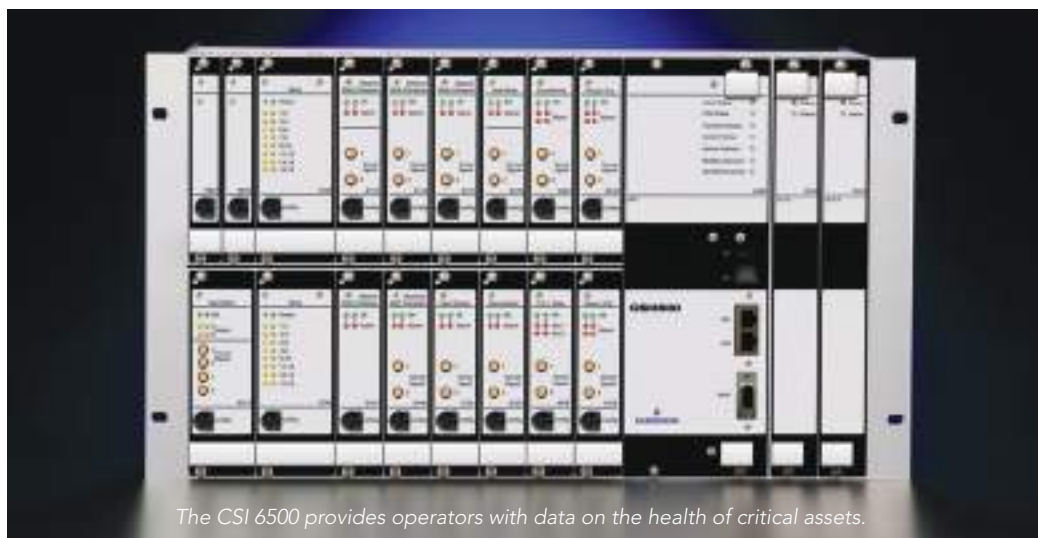
Emerson protection system receives SIL1 safety-critical rating

TESTING & CERTIFICATION

Emerson Process Management's CSI 6500 Machinery Health Monitor has received IEC 61508:2010, Safety Integration Level (SIL) certification.

The SIL1 safety-critical rating makes the product suitable for use in providing reliable protection monitoring in environments such as steam and gas turbines, power plants, critical refinery assets, nuclear industry critical assets, and other safety-critical applications, the company said.

According to Emerson, the CSI 6500 provides operators with information into the health of critical assets. The CSI 6500 gives operators information in a format that they are used to seeing on a standard distributed control graphics screen.



The CSI 6500 provides operators with data on the health of critical assets.

“While building safety products, it is important to ensure the availability of the whole safety system to keep it in operation for many years,” said Thomas Wewers, director of

technology for Emerson's reliability solutions.

“Emerson's commitment to safety has always been a top priority and as process systems become more and more intricate,

built-in safety features are even more important. SIL certification is one more way of showing our customers that we are committed to helping them reduce risk,” added Wewers.

Key People to expand operations

International provider of health, safety and environmental consultancy services Key People has announced plans to extend its services. According to the firm, the team consists of skilled professionals with a relevant background and has a natural focus on the high risk industry areas such as oil and gas, power generation, chemical, nuclear, rail, pharmaceutical as well as construction and manufacturing.

The firm currently offers a range of services including short-term audit work and long-term construction and installation projects where the health and safety elements are administered by consultants.

The Middle East division has regional offices in Iraq and Dubai and is currently in the process of expanding the operations to other countries. The company added that over the years, Key People has won and maintained a number of international clients. The company is able to provide consultants who are qualified to international standards— be it expat staff or the local resources.

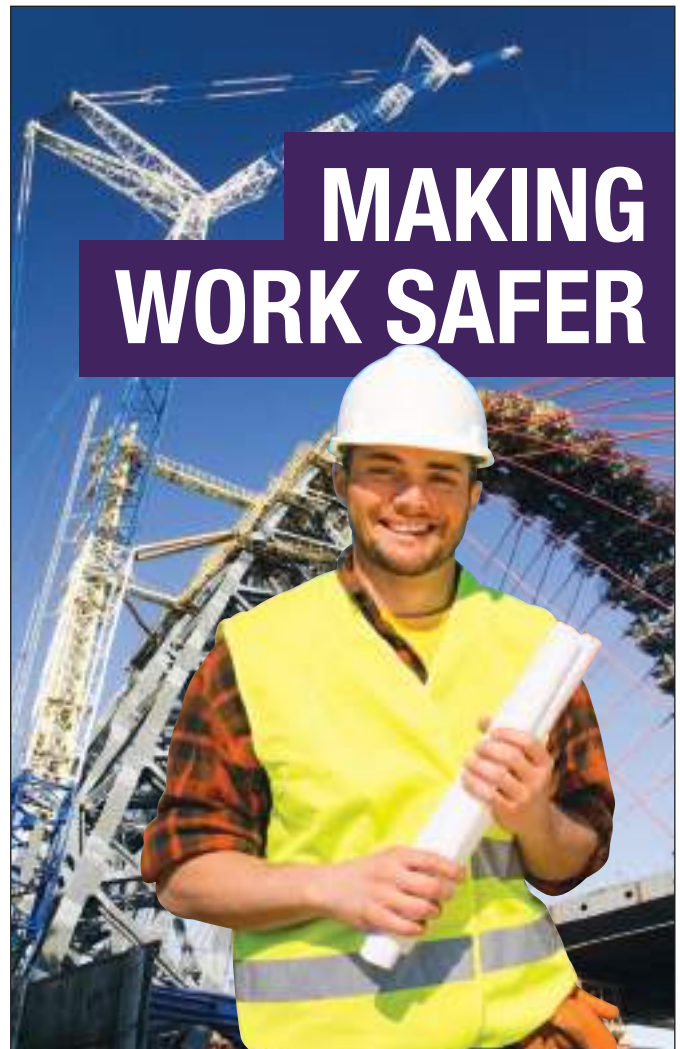


Key People has a number of international clients.

According to Key People, having worked with clients in the region for many years, the firm believed it is key to build and expand upon these relationships.

The firm has an internal team of consultants, who have many years of experience in a variety of industries, while also being able to provide consultants that surpass clients' expectations and offer advice that is in line with international and local standards.

Key People's experience in international projects has grown over the years, enabling the company to provide many other skillsets outside of the health and safety domain.



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مايك لورد يبين أهمية الظروف الميشية الأفضل في العراق

القانون والنظام وإعادة التلاحم بين أطرافها المتصارعة، ومكافحة تنظيم داعش، فضلاً عن حل مشكلاتها الاجتماعية والاقتصادية، لكن هناك ضوءاً يسطع في نهاية النفق.

يقول لورد «تحدث بعض الأمور الإيجابية مستشهداً بمشروع مدينة بسماية الجديدة التي تبلغ تكلفته ٧,٧٥ مليار دولار، والذي تتولى شركة هارلو تطويره بالاشتراك مع شركة مقاولات كورية جنوبية. توجد المدينة في إحدى ضواحي بغداد، وتتضمن بناء ١٠٠ ألف وحدة سكنية بين عامي ٢٠١٢ و ٢٠١٩ وهي حالياً أكبر مشروع سكني في العالم».

«نرغب في أن تمضي العراق قدماً بمجرد إيجاد حل اثتلافي لمشكلاتها. هناك أشياء جيدة تحدث، ويجب تضميم الجراح القديمة واستحداث أمور جديدة، وحل المشكلات القائمة. تمي الحكومة ذلك جيداً، ويعي حاكم البصرة ذلك ويرغب في القيام بالمزيد». وختم بقوله «نحتاج لتدفق النفط والغاز وارتفاع أسعار النفط مجدداً والمساعدة في إعادة إعمار العراق وتقدمها».

مايك لورد هو مدير تطوير الأعمال بشركة هارلو الدولية في العراق وهو العضو المنتدب لشركتي الخدمات الأمنية المحليتين، الضواري للخدمات الأمنية (ATS-109) والمرابط للخدمات الأمنية (AMS-91). هارلو الدولية هي مجموعة شركات دولية مقرها العراق، وهي تقدم الخدمات في قطاع النفط والغاز والدفاع والإنشاء، إلى جانب الخدمات الحكومية والإعلامية.

متطلبات شركات النفط الدولية، ونتمكن من أداء ما يمكننا أدائه».

يتعين على شركات النفط الدولية، وكبار المستثمرين، بذل المزيد من الجهود للمشاركة في التنمية الاجتماعية والاقتصادية، ومساعدة الدولة على التعامل مع مشكلات على غرار الشفافية.

ويقول لورد: «تلجأ أغلب الشركات الغربية لجلب حلول خارجية بدلاً من أن تستغرق بعض الوقت من أجل فهم تعقيدات البيئة القبلية العراقية والانقسام السني/الشيوعي وطبيعة العمل في هذه الأجواء. إن من الأفضل توفير التدريب لأفراد المجتمع المحلي، وعرض الوظائف عليهم بدلاً من جلب موظفين من الخارج، ويجب أن تتبنى العراق ذلك النهج. حيث يسهم ذلك في بناء الثقة وتضميد الجراح. وإذا توفر بعض المال الذي يتيح للأفراد شراء منتجات مثل وحدات تكييف الهواء والمياه المعبأة في زجاجات، فلا شك أن هذا يساعد في التخفيف من وطأة الاضطرابات الاجتماعية. كذلك تلعب أخلاقيات العمل دوراً بارزاً في هذا الصدد، وهي تحتاج لبعض الوقت لغرس الثقافة الملائمة».

ويستطرد قائلاً «هناك برامج لتدريب وتوظيف المحليين. ففي قطاع النفط، على سبيل المثال، يتم اختيار بعض الأفراد وإرسالهم إلى الخارج أو إلى المؤسسات المتخصصة من أجل الدراسة. غير أن هذه البرامج بحاجة إلى المزيد من التوسُّع والسرعة والفاعلية في توفير فرص العمل».

تواجه الدولة العراقية تحديات جمة لاستعادة

«تسعى الشركات لخفض موازنات الأمن بواقع ٢٠ في المائة، ولذلك تأثيرٌ كبيرٌ حيث يقترب المعيار القياسي من هامش ثمانية إلى تسعة في المائة». لا تزال كبرى شركات الأمن الدولية، الوافدة إلى العراق في أعقاب النزاعات، متواجدة بها، ولكن ربما يكون لديها شواغل بشأن مستقبلها في السوق العراقية.

ربما يشكل هذا الموقف فرصة لشركتي الأمن العراقيتين المحليتين المعتمدتين من وجهة نظر هارلو، وهما شركة الضواري للخدمات الأمنية ومقرها بغداد، وهي توفر خدمات الإنشاء والدفاع وتأمين كبار الشخصيات، وشركة المرابط للخدمات الأمنية ومقرها البصرة، والتي تركز على دعم قطاع النفط والغاز.

تحت قيادة لورد، بدأت الشركتان في تحدي هيمنة شركات الأمن التقليدية العالمية، وأصبحتا مؤخرًا أول شركتي خدمات أمنية خاصة في العراق تحصلان على معيار PSC1.1 الدولي، وهي إحدى أفضل الشهادات التي تُمنح للتميز في هذا المجال. على سبيل المثال، توفر شركة الضواري للخدمات الأمنية الخدمات الأمنية المتنقلة والثابتة للمصرف العراقي للتجارة، ويتم تطبيق برنامج تدريب في كل فرع.

تبلغ نسبة الموظفين من السوق المحلية في الشركتين ٩٥ في المائة، ويتم إثراء معرفتهم المحلية ومهاراتهم وخبراتهم. ويذكر لورد أن «شركتنا العراقية الآن تضاهي أية شركة خدمات أمنية دولية من حيث الاعتماد والمعايير، إلى جانب كونها كيانات محلية تقدم أسعاراً تنافسية للغاية». «نحن الآن قادرون على طرح عطاءات للعمل مع شركات النفط العالمية، ونسعى لإبرام عقود أولية وليس عقوداً من الباطن. إننا نكتسب زخماً ونبدأ في إحداث تأثير، فنحن أكبر مالِك للعربات المُصنَّعة في العراق».

ومع الأخذ في الاعتبار الدور الذي تلعبه الشركات في توفير الوظائف وفرص العمل للمجتمع المحلي بدلاً من جلب موظفين أجنب من الخارج، أبدى وزير الداخلية تعاوناً كبيراً، فهو حريص على تعزيز المزيد من الفرص للعراقيين في المجال الأمني، حسبما ذكر لورد. ويقول: «نسعى لدعم وتوجيه الشركات العراقية الأخرى لمساعدتها على رفع معاييرها حتى تنسجم مع

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دعم صناعة الأمن المحلي في العراق

البصرة وما حولها، وتصاعدت مستويات الجريمة والاضرابات الاجتماعية حسب، قول لورد. وعلى الرغم من انطلاق بعض المظاهرات حول منطقة غرب قرنة وغرب قرنة ٢، لم تتأثر شركات النفط التي تزاو العمل بالحقل بصورة كبيرة وتمكنت من مواصلة أعمالها.

يقول لورد: «لم يستهدف تنظيم داعش حتى اليوم. قطاع الهيدروكربونات في جنوب العراق، إلا أن التهديدات الأمنية لا تزال قائمة نتيجة لوجود تحديات وتهديدات أخرى. وحتى هذه اللحظة، لا تزال خدمات الاستقبال والمساعدة تصطبح العاملين من المطار وتقلهم في مركبات مُصفحة إلى حقل النفط، ومن هناك تنقلهم إلى قواعد آمنة يمارسون فيها أنشطتهم اليومية».

«تتسم العراق ببيئتها القبلية متعددة الطوائف وشديدة التعقيد، وأنصح أي شركة نفط، تدرس دخول السوق هناك، بالإعداد الجيد لهذا الأمر قبل القيام بذلك. فلا ينبغي دخول السوق العراقية إلا بعد دراسة الأوضاع جيدا، حيث لا مجال للوقوع في أخطاء. وينبغي أن تكون على دراية بالمشكلات الاقتصادية والاجتماعية والأمنية وتلك المتعلقة بالاستقرار هناك، فإذا سارت الأمور على غير ما يرام، تتعرض أعمالك لعواقب وخيمة خلال فترة وجيزة».

«لا تزال هناك فرصة في العراق، غير أن بُعد موقعها، ونقص الخدمات الرئيسية بها، تعني أن مزاوله العمل بها تعتبر أمرا مكلفا للغاية. ومع انخفاض سعر برميل النفط عن ٤٠ دولارا، وبلوغ سعر التعادل ٦٢-٦٤ دولارا، تشهد العمليات تباطؤا ملموسا. فقد ارتفعت تكلفة مزاوله العمل بينما ينخفض سعر النفط، وهو ما يؤدي إلى احتدام المنافسة، ولا سيما في قطاع الخدمات».

الخدمات الأمنية تحت طائل الضغط

تعاني الخدمات الأمنية، على غرار بعض الخدمات الأخرى، من تخفيض الإنفاق على مستوى توفير الخدمة. ويعلق لورد على ذلك قائلاً:



بالإمكان التغلب على القلاقل في العراق بتوفير هرمس العمل

يكشف مايك لورد - في هذا التحقيق - حقائق عن دور تحسين ظروف المعيشة وتوفير فرص العمل في خفض احتمالات حدوث الاضطرابات الاجتماعية جنوب العراق. فالصحف تكتظ بأخبار الخراب والدمار، اللذين يجرحهما تنظيم داعش على جنوب العراق. غير أنه في منطقة الجنوب، حيث لا يكون حضور هذا التنظيم قويا، تعزى التهديدات الأمنية - في الأساس - إلى الاضطرابات الاجتماعية والجرائم، حسب قول مايك لورد من شركة هارلو الدولية، والذي يحظى بخلفية عسكرية مميزة، ولديه ٣٠ عاما من الخبرة الأمنية في قطاع النفط والغاز.

المركزية على توفيرها». وأردف قائلاً: «حاكم البصرة الجديد شخصٌ براجماتيٍّ وحريصٌ على استغلال عوائد النفط الدولارية لتطوير الخدمات العامة. غير أن هبوط أسعار النفط، وتأثير انخفاض عوائد النفط على موازنة الحكومة المركزية، يتمخض عنه بطء تدفق هذه العوائد». الناس في الشارع يرون النفط والغاز يخرج من باطن الأرض، ومع ذلك لا يجنون أية فوائد. وهم يشعرون ببالغ الاستياء عندما يعانون من انقطاع التيار الكهربائي في أوقات الارتفاع الشديد لدرجات الحرارة، ومن المياه المالحة التي تصل إليهم من صنابير المياه. وعلى إثر ذلك ظهرت الاحتجاجات في شوارع

مدينة البصرة لاتزال تعاني من الآثار الناجمة عن عقود من الحرب والعقوبات والاحتلال والاحتراب الداخلي، هذا على الرغم من كونها تضم ٧٠ في المائة من احتياطي الغاز، و٥٩ في المائة من احتياطي النفط بالعراق. ولاشك أن البنية الأساسية الاقتصادية والاجتماعية للعراق بحاجة إلى إعادة التأهيل. فهي تكابد انتشار مرض السل الذي أصبح متوطنا، إلى جانب شيوع الفقر والبطالة، حيث يقل متوسط الأجور عن ٥٠٠ دولار شهرياً.

يقول لورد: «البصرة بحاجة إلى المنازل والكهرباء والمياه الجارية النقية وفرص العمل، وهي الاحتياجات التي يجب أن تعمل الحكومة

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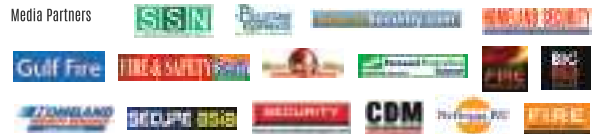
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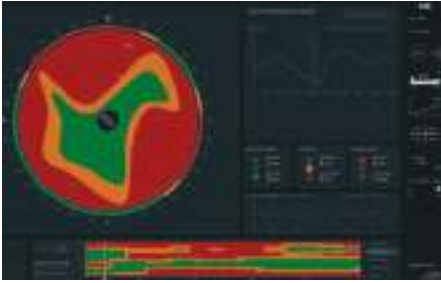
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برنامج إيه بي بي TOPUS سيوفر تكنولوجيا لتدعيم ثلاث سفن في مهام الإنشاء والصيانة

توظيف تكنولوجيا إيه بي بي للسلامة تشغيل السفن

سوف توفر شركة إيه بي بي التكنولوجيا التي ستقوم بتدعيم ثلاث سفن في مهام الإنشاء والصيانة على عمق يصل إلى خمسة كيلومترات تحت الماء. وسوف تستخدم السفن برنامج OCTOPUS من إيه بي بي الذي يستخدم أجهزة الاستشعار وإنترنت الأشياء والخدمات والناس (IoTSP) لتحليل أحوال الطقس، مما يتيح لطاقم السفينة اتخاذ قرارات مدروسة أثناء إجراء المهام، حسبما ذكرت الشركة.

وسيتم إنشاء السفن لصالح شركة Ultra Deep Solutions في شركة CSIC China Huangpu Wuchang Shipbuilding المحدودة لبناء السفن وشركة Merchants Heavy Industry. وبحسب إيه بي بي، تعتبر مجموعة منتجات OCTOPUS أداة توفر الدعم والنصائح التشغيلية على متن السفينة خلال العمليات الحساسة لحالة الطقس في حقول النفط البحرية عبر مراقبة وتوقع تحركات السفينة. وقال يوها كوسكيلا العضو المنتدب لقسم الملاحة والموانئ بشركة إيه بي بي: «اتساع نطاق العروض على هذه السفن، هو برهانٌ ناصحٌ على العدد الكبير من الحلول التي يتعين علينا تقديمها في قطاع الملاحة البحرية. وسوف تستفيد هذه السفن من بعض من أهم تكنولوجيات البرامج والأجهزة في صناعة السفن». كما كشفت إيه بي بي النقاب أيضاً عن أن السفن سوف تتضمن مولدات ومحركات وآليات نقل، ومحولات هاتمية من إيه بي بي.

العمل فيهما على قدم وساق. ونحن فخورون ببلوغ هذا الرقم الكبير على الرغم من قرب الموقعين الشديد من محطة مترو برج خليفة ومول دبي، وهما يعتبران مركزين يجذبان آلاف الركاب والزوار يومياً». وقد تم إيلاء عناية كبيرة لاعتبارات الصحة والسلامة في سكاى فيو، وهو مجمع متعدد الاستخدامات مكون من برجين. ولتسهيل أعمال الإنشاءات لقوة عاملة يبلغ عددها ٢٥٠٠ عامل، تم استخدام ثمانى رافعات برجية ورافعة متحركة واحدة. ويسبب عمل الرافعات البرجية في نفس الوقت حدوث ازدحام في الحيز الهوائي. كما أن قدرات الرافعات على المناورة تتأثر بصغر الحيز الأرضي بين البرجين، مما يعني أن توفير آليات الحماية ضد الاصطدام المحتمل بين الرافعات هو تحدٍ آخر كبير يواجه إدارة المشروع. ويواجه فاونتن فيو نفس التحديات المتعلقة بالرافعات مثلما الحال مع سكاى فيو. حيث يضم هذا المشروع، متعدد الاستخدامات والمكون من ثلاثة أبراج في وسط دبي، حالياً ١٨ رافعة برجية، وأربع رافعات متحركة تعمل في الموقع لمساعدة القوة العاملة الضخمة البالغ عددها ٥٥٠٠ عامل، وحيث يتواصل العمل على مدار الساعة لتسليم المشروع قبل نهاية ٢٠١٧.

وأضاف بيداد: «نواجه، إلى جانب التحديات المادية في موقعي سكاى فيو وفاونتن فيو، مشكلة متعلقة باختلاف المعتقدات حول السلامة، والناجمة عن وجود قوة عمل متنوعة ومتعددة الثقافات. نتعامل مع هذه الحالة بتعيين عدد إضافي من القادة المتخصصين في مجال السلامة لأجل إحداث التأثير الإيجابي على مفاهيم السلامة لدى قوة العمل. ولتحقيق هذه الغاية، يمارس جميع العاملين في المشروعين العمل تحت مظلة نظام إداري متكامل ومعتمد لضمان توافق الأداء وكفاءته والتزامه بممارسات الصحة والسلامة والبيئة الجيدة». وكانت الشركة العربية للإنشاءات، قد حصلت، في مارس/آذار ٢٠١٤، على جائزة التقدير الدولية من مجلس السلامة البريطاني، وهو منظمة غير ربحية تهدف لضمان تطبيق أفضل الممارسات في الصحة والسلامة في مكان العمل، وذلك عن عملياتها في مشروع فاونتن فيو.

مفكرة رجال الأعمال ٢٠١٦

مارس/آذار

دبي	٣-١	معرض الشرق الأوسط للكهرباء
أبوظبي	١٧-١٥	المنتدى الدولي حول إعادة التوليد العصبي. ISNR
أبوظبي	١٧-١٥	معرض الشرق الأوسط لمكافحة الحريق
أبوظبي	١٧-١٥	معرض الشرق الأوسط للسلامة المهنية والصحة
بيرمنجهام	٢٤-٢٢	فعالية الصحة والسلامة
دبي	٢٨-٢٧	معرض نقل «السلامة» إلى غرفة الإدارة

أبريل/نيسان

دبي	١٣-١٢	المعرض الدولي لصهاريج التخزين
بلتيمور	١٧-١٢	المعرض والمؤتمر الدولي لتكنولوجيا الاستشعار والتصوير. SPIE DSS
مسقط	٢٧	أبريل مؤتمر معهد الصحة والسلامة المهنية. IOSH

تطوير ملصقات التعريف الخارجية الأقوى من نوعها

الهواء الموجودة على أسطح المباني والأبواب وأعمدة السلالم الخارجية.

وفي القطاعات ذات الأنشطة أو المنتجات الخارجية، مثل البيانات والاتصالات أو الإنشاءات أو الصناعات الكهربائية، تعمل الملصقات الخارجية الأكثر متانة على زيادة الكفاءة من خلال وضوح التعريف والاتصال في الحال.

ويمكن طباعة ملصق التعريف الخارجي، الأقوى من نوعه، في الموقع باستخدام طباعة نقل حراري عالية الجودة ثابتة أو متنقلة من برادي. وتتوفر طباعة العديد من خيارات الرموز الشريطية والأرقام المسلسلة في الموقع، إذا اقترن ذلك باستخدام برنامج ملصقات التعريف. ويكون من السهل طباعة الملصق ووضعه لأنه ذاتي الالتصاق ولا يتطلب طبقة واقية. يُعرف الملصق الأقوى المقاوم لعوامل الطقس الخارجية أيضاً باسم B-8591. وهو جزءٌ من سلسلة ملصقات Workhorse™ من برادي.

تفضل بزيارة جناح برادي (3F29) في معرض كهرباء الشرق الأوسط المقام في دبي (الإمارات العربية المتحدة) من ١-٣ مارس ٢٠١٦.



برادي طورت ملصقات تعريف بجودة عالية وهي الأقوى بين ملصقات التعريف الخارجية في السوق

لاستبداله بشكل متكرر. وتتوفر ملصقات التعريف الخارجية، الأقوى على الإطلاق، بطبقة سوداء على خلفية بيضاء. وهي ملائمة لوضع الرموز الشريطية، وبيانات تعريف الألواح الشمسية، والمركبات، والمعدات، والمرافق، والكابلات المكشوفة. ومن بين التطبيقات المحتملة أيضاً ملصقات التعريف على اللافتات، وعلى ماكينات البيع، ووحدات تكييف

طورت شركة برادي ملصقات تعريف بجودة عالية مقاومة للأشعة فوق البنفسجية، وعوامل الطقس، والسوائل والتآكل. علماً بأن ملصقات التعريف الخارجية الأقوى في السوق تحافظ حتى اليوم على بيانات تعريف المركبات والمكونات والمرافق بوضوح لمدة تزيد على عقد كامل. تتعرض العديد من حلول التعريف الخارجي لبهت الألوان أو الانكماش أو التصدع أو السقوط بعد عدة سنوات من استخدامها، وتصبح غير واضحة ومن ثم غير ملائمة. بينما تظل ملصقات التعريف الخارجي الجديدة، التي طورتها برادي والشديدة المتانة والخالية من الهالوجين، ملتصقة وواضحة لمدة تزيد على ١٠ سنوات في أقسى الأحوال الخارجية. هذه الملصقات مقاومة لعوامل الطقس بشكل فريد، وليست بحاجة إلى طبقة واقية لحماية مطبوعاتها.

ولاشك أن التعريف الواضح والدائم يساعد في استخدام المعدات والمكونات والمركبات والأدوات والمرافق بفاعلية أكبر، وليست هناك حاجة

العربية للإنشاءات تحقق إنجازاً هائلاً في مجال الصحة والسلامة

أعلنت الشركة العربية للإنشاءات، ومقرها دولة الإمارات العربية المتحدة، أنها أمضت ١٠ ملايين ساعة خالية من الإصابات المسببة لهدر الوقت. وقد تم إحراز هذا الرقم في مشروع الشركة في وسط مدينة دبي؛ مُجمع سكاي فيو وفاونتن فيو.

وأشارت الشركة إلى أن بلوغ هذا الرقم القياسي يعد إنجازاً محموداً، مع الأخذ في الاعتبار مستويات النشاط العالية التي تجري في الموقعين. علماً بأن العمل في الموقعين يجري على مدار الساعة، هذا إلى جانب وجودهما بالقرب من الشوارع الرئيسية الحيوية العامة، ومعالم الجذب السياحي.

وقال محمد بيداد، مدير الصحة والسلامة والبيئة بالشركة: «لقد برهنت الشركة العربية للإنشاءات مجدداً - على أن صحة وسلامة مستخدميها وأفراد الشعب هي أولى أولوياتها، وهو التزام تجلى في إنجاز ١٠ ملايين ساعة خالية من الإصابات المسببة لهدر الوقت في موقعي الإنشاءات سكاي فيو وفاونتن فيو اللذين يجري



حققت العربية للإنشاءات ١٠ ملايين ساعة خالية من الإصابات المسببة لهدر الوقت.

توتال وشرطة دبي يطلقان حملة لتعزيز سلامة سائقي الشاحنات



توتال تفتتح مع شرطة دبي في إطلاق حملة بهدف تحسين مستويات الصحة والسلامة لسائقي الشاحنات

أعلنت شركة توتال للتسويق في الشرق الأوسط، المملوكة لشركة توتال، عن مبادرة شراكة مع شرطة دبي لإطلاق حملة مدتها خمسة أيام، بدءاً من تاريخه، بهدف تحسين مستويات الصحة والسلامة لسائقي الشاحنات على الطرق. و«حملة سائقي الشاحنات هي عبارة عن مبادرة من أربع نقاط. وهي توجه السائقين لأن يكونوا لائقين طبياً، وأن يأخذوا قسطاً كافياً من الراحة، وأن يراعوا حدود السرعة القانونية، وأن يتأكدوا من سلامة مركباتهم وبقائها في حالة جيدة لتوفير السلامة على الطرق. يجدر بالذكر أن هذه الحملة تعتمد على دراسات أجريت حول حدوث مئات من حوادث الطرق المميتة بسبب الأحوال الطبية، وهي تشمل مركبات النقل الثقيلة. وتكشف الدراسة عن أن احتمالية وقوع الحوادث تزيد بعامل ٣,٥ إذا كان السائق يعاني من مرض مزمن. وقد أقيمت خيمة في سوق الخضار والفاكهة في منطقة العوير، لكي يفد إليها السائقون للخضوع لفحوص طبية، وتلقي النصائح حول القيادة الوقائية، إلى جانب إجراء الفحوص الأساسية للمركبة.

وفي تصريح له حول إطلاق هذه الحملة، يقول ديفيد كاليب، العضو المنتدب لشركة توتال للتسويق في الشرق الأوسط: «لا يقتصر اهتمامنا في توتال على سلامة موظفينا، وإنما يشمل أيضاً المجتمع بأكمله. ونحن نفخر بالعمل جنباً إلى جنب مع شرطة دبي لإطلاق هذه المبادرة التي تعد خطوة مهمة ضمن حملاتنا المستمرة لتحسين السلامة على الطرق».

وأردف قائلاً: «تهدف الحملة، على المدى البعيد، إلى زيادة التوعية بالأسباب الرئيسية لوقوع الحوادث، والتي تشمل مركبات النقل الثقيلة. وسعى، على مدار الأيام الخمسة

يحضر فريقاً متخصصاً من شرطة دبي لتدريب السائقين على كيفية صيانة المحركات وأنظمة المكابح، وكيفية فحص تلف الإطارات. وإلى جانب ذلك، تقدم شرطة دبي جلسات قصيرة للتوعية بالقيادة الوقائية، وكيفية توقع حوادث الطرق، وتجنب وقوعها. وسوف يوزع فريق الضباط معلومات حول الغرامات والنقاط السوداء التي يتلقاها السائقون عند مخالفة قواعد القيادة، والتي تشمل الحمولة الزائدة، وتسرب المواد المحملة في الشاحنات، والقيادة على مقربة شديدة من المركبة الأمامية، وغير ذلك من التجاوزات الخطيرة. وسوف يحصل السائقون أيضاً على معدات السلامة التي تحتوي على مجموعة من الأغراض؛ مثل السترات العاكسة ونظارات الحماية والقفازات. علاوة على تجهيزات السلامة الأخرى اللازمة لتوفير الحماية لهم.

للحملة، إلى الوصول إلى أكثر من ٢٠٠٠ سائق شاحنة. وبالتعاون مع شرطة دبي، سنؤكد للسائقين على ضرورة الاهتمام بصحتهم، وسلامة مركباتهم، ومراعاة قواعد القيادة على الطرق، ومن ثم يساهم ذلك في خفض نسبة التعرض للحوادث الخطرة بشكل كبير». وسوف يُدعى السائقون لزيارة مركز الحملة للخضوع للفحوص الطبية المجانية على مدار أيام ذلك الأسبوع من ٩ صباحاً حتى ٥ مساءً في سوق الخضار والفاكهة عند التقاطع ما بين شارع الشيخ محمد بن زايد وطريق العوير. وسيكون فريقاً من الأطباء المتخصصين والممرضين حاضراً لإجراء الفحوص التي تشمل ضغط الدم ومستويات السكر بالدم ومؤشر كتلة الجسم، إلى جانب تقديم الاستشارات العامة للسائقين. من المسائل الهامة التي تركز عليها الحملة؛ هي المحافظة على سلامة الشاحنة. وسوف



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