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INNOVATING TECHNOLOGY, LEADING THE WAY

Exclusive: Rebecca Liebert
CEO of Honeywell UOP speaks
on the importance of building
innovative technology

Trizac pours seasoned knowledge into hipps venture

Trizac Abu Dhabi - utilising the knowledge and experience gained over 30 years in the field of valves and instrumentation - has started engineering and development of the high-integrity pressure protection system (HIPPS).

Trizac Abu Dhabi expertise enables it to provide HIPPS packages, designed in accordance with IEC 61508 and IEC 61511 by trained and certified staffs, along with the support of exida.

Trizac Abu Dhabi, with its in-house capabilities and professional team, has delivered 20 HIPPS systems to different companies of ADNOC group, and a number of systems are presently under engineering and production.

A HIPPS is a type of safety instrumented system (SIS) designed to prevent over-pressurisation of a plant. A system that closes the source of over-pressure within a specified time is usually called a HIPPS.

Such a HIPPS is a complete functional

loop consisting of sensors – initiators - a logic solver and final element comprising a valve, actuator and solenoids.

Having the capability and expertise available locally, Trizac Abu Dhabi is able to provide HIPPS systems with the highest quality - at a very competitive price when compared to sourcing the HIPPS system from different parts of the world.

HIPPS provides a solution to protect equipment in cases of high pressure and/or flow rates, protects the environment and reduces the risk profile of the plant.

The HIPPS will shut off the source of the high pressure before the design pressure of the system is exceeded, thus preventing loss of containment through rupture of a line or vessel.

Therefore, a HIPPS is considered a barrier between a high-pressure and a low-pressure section of an installation. The requirements of the HIPPS should not be simplified to a PFD level only; the qualitative requirements



and architectural constraints form an integral part of the requirements to an instrumented protection system such as HIPPS.

Ever-increasing flow rates, in combination with environmental constraints, initiated the widespread and rapid acceptance in recent years of HIPPS as the ultimate protection system.

Ampelmann offers innovative solution to meet new lifeboat safety regulations

The oil and gas industry has just 18 months to upgrade critical release hook systems on offshore lifeboats to meet new regulations imposed by the International Maritime Organisation (IMO) to improve safety at sea.

According to the organisation, the number of failures during drills and inspections which resulted in casualties or injured crew members has been unacceptably high. Launched in 2011, the IMO regulations state that lifeboat release and retrieval systems must be evaluated and replaced no later than 1 July 2019. This will involve the complex and costly removal, retrofit and replacement of lifeboat systems globally.

Ampelmann, the global leader in offshore access solutions, is offering its Atlas motion-compensated lifeboat exchange system to the oil and gas industry to provide a faster, safer and more cost-effective alternative to traditional procedures which can be performed within a wider operational window. The Atlas system can also be used to transfer



large pieces of equipment and delicate or complex cargo as well as replacing lifeboats to meet personnel on board (POB) requirements.

Currently, many lifeboats on fixed oil and gas installations and floating platforms are inaccessible by in-situ cranes, meaning that lifeboats are lowered in the sea, navigated to a vessel and lifted by crane onto the ship's deck. This traditional 'wet' transfer can only be carried out in near-perfect weather and sea conditions and can lead to significant vessel downtime and risk to personnel performing

the transfer operation. In addition to this, it puts the allowable POB limit at risk.

The Atlas system involves the lifeboat being lowered directly onto the cradle of an active heave compensated installation system located on the deck of the supply vessel. The hexapod absorbs any vessel movement in significant wave heights up to 3.5 metres, while the davit retrieves the lifeboat from a fixed horizontal position. It can also be used for multiple change outs across several assets within the same operation, both on conventional and free-fall lifeboats.

Lorenz Nehring, Ampelmann's Business Development manager UK, said: "The IMO deadline is a call to action to ensure that lifeboats are re-hooked, fit for purpose and of the highest safety specifications. The industry would be prudent to prepare and plan now to carry out the potentially risky operation of removing, upgrading and replacing lifeboat release and retrieval systems without affecting downtime and safety to personnel."



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Now WE create the future !



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