Innovators of well test support announce new products

By Mike Adlen, sales director, Scantech Offshore

Since its inauguration in 2002 ScanTech Offshore has dedicated its focus on providing innovative solutions specifically for the well testing market. Owned and supported by James Fisher & Sons Plc, the leading marine and offshore services provider has 1600 employees in 40 countries and boasts contracts with all of the oil majors.

Having experienced phenomenal growth and investment over the last 3 years ScanTech Offshore moved to the Groups 11 acre Fisher Offshore Base, doubled its support team and invested heavily in infrastructure to maintain its number one position for quality and service.

The ScanTech business has 120 employees supported by the largest fleet of 1600cfm air compressors and steam generators dedicated to supporting our well test customers and their clients around the globe. Revenue this year is budgeted to exceed £22 million.

Heat suppression is more commonly known as rig deluge or rig cooling and has been added to our product portfolio. We provide bespoke cooling packages, fixed and portable systems, heat radiation modelling and monitoring as a single or multiple service line. Our clients also utilise our range of surface booster pumps, submersible modelling and monitoring as a single or multipleserviceline. In recent times we have returned to the UK sector by our clients requiring high volume small footprint 1600cfm Zone II compressors and innovations to address the next step change in safety.

Post Macondo duty holders and clients alike have revaluated their safety cases to ensure the highest standards of safety are adhered to. A natural progression to evaluate risk when hydrocarbons are at surface particularly during well testing appears to have ensued. A number of rig owners, operating companies and one certifying authority are maintaining that when diesel driven or fired equipment is employed, it should normally be located at a safe distance from the hazardous area. However, special precautions shall be taken where such items could cause ignition of accidental gas or liquid release.

Faced with providing a speedy solution for the BP Clair Ridge Project in October 2012 ScanTech grafted new technology from its then Zone II Steam Generator project and designed its 6.0Mbtu Hybrid Steam Generator that boasts a maximum surface and exhaust temperature of 220°C. Together with six of space saving 1600cfm Zone II Air Compressors several successful projects have been completed for this on-going project to date.

ScanTech’s patented appliance for HeaterSentry® analyses hydrocarbon content providing a safe path to return hot water to the steam generator or boiler. The following benefits can be realized:
  • Save up to 96 tonnes of potable water
  • Alert for heater leak
  • Fire up 20% additional boiler/heater performance
  • Environmentally responsible
  • Reduce CO₂ emissions

Product focus – PyroSentry®

PyroSentry™ is an automated fire detection and fire suppression system designed for flammable liquid bunds and storage areas. Primarily used for enhancing safety when storing or handling methanol on supply vessels and offshore installations during well testing and well intervention.

The system consists of a charged fusible loop of Fire Trace Detection Tubing® (FDT), which traces the internals of the containment area. Contact with flame ruptures the pressure circuit tubing activating AR AFFF foam extinguishers.
  • Suppression
  • Automated
  • Fuseable
  • Early Warning
  • Rapid Response

New Products under development

ScanTech have a unique well test burner in development. The compressed air and fluid streams do not combine until after exiting the burner head. The objectives of which are achieving well fluid atomization between 100 & 200 SMD (sauter mean diameter), reducing the number of compressors required by 50% and achieving zero separator back pressure. The current prototype is showing excellent clean burn characteristics using less air. There will be more new innovations to follow aimed specifically at the well test market.

For more information visit: www.scantechoffshore.com

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Two steam generators being loaded for the flight to Tanzania.

Macao Brazil, Labuan Malaysia and Perth Australia demonstrating the vast majority of business to date has been performed outside of the UK. The Group has recently established trading entities in Ghana and Tanzania making those locations readily available to us and allowing us to increase our presence within the region. Wherever we establish around the globe we invest in local infrastructure, preferring to manage and control quality by directly employing the right balance of local and national personnel.

This philosophy has advanced our maintenance regimes to such an extent that our exceptional service delivery available globally is what you would expect if mobilising from Aberdeen or Stavanger. The majority of these processes are ‘cloud based’ allowing service records, equipment certificates and operating guides to be downloaded by operators and customers alike. As you would expect from a leading service provider our integrated maintenance and management system is accredited to ISO 9001, 14001 and 18001 and are audited by DNV.

SAFETY STEP CHANGE

Surface and exhaust temperatures under 200°C
Automatic isolation of intakes and shut-down upon gas detection
Fire and gas suppression system
Ex-d electrical operating and control system
Remote separated fuel system

Product focus – HeaterSentry®

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Benefitsof Zone II Steam Generators:

Surface and exhaust temperatures under 200°C
Automatic isolation of intakes and shut-down upon gas detection
Fire and gas suppression system
Ex-d electrical operating and control system
Remote separated fuel system

Product focus – Zone II Steam Generators

Current legislation recommends that during surface well testing or whilst hydrocarbons are at surface steps should be taken to remove sources of ignition in the event of an undesirable gas or liquid release. The distance between a ‘Safe Area’ and a Zone II classified area in accordance with IP 15 is 3 meters from any part of the well test process system. To provide a layman’s appreciation the volume of gas in a working well test spread can be visualised as a 32ft sphere at atmospheric pressure. The propagation speed of a sizeable release in a 25mph wind could be 36 feet per second and in this timeframe such an event would make it difficult to guard against especially where engine or boiler intakes do not employ flame traps and or isolating dampers.

Product focus – Zone II Steam Generators

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Early in the New Year the first pair of Zone II Steam Generators were completed and deployed via air freight to Tanzania. They joined existing 1600cfm Zone II Compressors and HeaterSentry® equipment hired by the current well test behemoth Schlumberger working for an eminent British company involved in Gas exploration. Similar projects using Zone II Air Compressors and Steam Generators are now on-going in Trinidad, Angola and Brazil.

Many will agree the safest way to guard against gas or liquid release is to use Zone II Equipment.

Two steam generators being loaded for the flight to Tanzania.
Stay safe and cool...

...with ScanTech Offshore

Flare boom cooling systems
Rig side cooling systems
Bespoke cooling systems
Fixed & semi fixed systems
Surveys & rig system appraisals
Flare simulation

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