Welcome to World Pipelines’ annual Offshore Technology Review. Read on to catch up on offshore oil and gas pipeline activities from the past year before the whole sector meets at OTC (30 April - 3 May 2018 in Houston, USA).
CRC-Evans Offshore, part of Stanley Oil & Gas, is a world leading offshore pipeline construction specialist, offering a wide range of pipeline fabrication services to the oil and gas industry.

By designing and building advanced equipment, engineered for the unique demands of offshore pipeline fabrication, CRC-Evans Offshore selects the optimum welding solutions to suit project specific requirements, and can deploy a range of automated and manual welding solutions, including dual torch technologies, CMT, GTAW, GSFCAW and PGMAW.

Historically, this advanced technology has enabled CRC-Evans Offshore to secure and successfully execute numerous spoolbase projects with onerous project specifications, including DGE Kodiak, Petrobras Guara Lula and the Eni Block 15 and Total Block 52 Kaombo projects in Angola.

It is evident that in the coming years the pipeline market will be dominated by shallow water scopes in South East Asia and the Middle East. 2018 has already seen some extensive shallow water pipeline installations.

To compete in both this market and those regions, CRC-Evans Offshore has adapted and, over the last two years, has focused on developing its S-lay capability, including the innovation of a new P625-S welding system designed specifically for S-lay applications, with features tailored to reduce cycle time and enhance quality.

CRC-Evans is now able to deploy cutting-edge, cost-effective welding solutions primed for S-lay projects, and maintain its industry-recognised, high productivity and minimal repair rates.

As a result, in 2017, CRC-Evans Offshore secured and executed five S-lay projects, including:

- Cortez Subsea – St. Eustatius project.
- Geocean – Moheshkhali FLNG project.
- Geocean – Summit FLNG project.
- L&T Hydrocarbon Engineering – ONGC Neelam Redevelopment (NRDP) project.
- L&T Hydrocarbon Engineering – ONGC PRP-4 project.

In 2018, more than seven S-lay projects have been awarded to CRC-Evans Offshore for delivery throughout the year, including:

- COOEC – Saudi Aramco Berri Redevelopment project.
- Micoperi – El-Hamra project.
- COOEC – Dangote oil refinery project.
- L&T Hydrocarbon Engineering – ONGC PRP-4 project.

LOOKING AHEAD

Paul Alexander, Managing Director, CRC-Evans Offshore comments: “CRC-Evans Offshore sees the opportunity to create cost-effective and deployable pipeline welding technology to allow hydrocarbon recovery and transportation from challenging reservoirs in the regions of the world where the oil and gas skill base is much lower than in the established oil and gas producing countries.

“Our ability to create enabling technology exists and continues to grow exponentially; however, the key business risk is the immigration and fiscal constraints that impede deployment of skill and creation of local and low-cost capability in hydrocarbon rich countries. CRC-Evans Offshore remains positive about and active in the S-lay market and is eager to embrace the upcoming industry challenges with vigour and innovation.”
Micoperi – Shell Southern Swamp project.

Quanta Marine Services – Williams Destin Gas Lateral project.

These projects have enhanced the company’s global operating presence, with international projects in the works in areas including Trinidad and Tobago, Bangladesh, Nigeria, Saudi Arabia, the Republic of Congo, India and the Gulf of Mexico.

Throughout the duration of all these projects, CRC-Evans Offshore’s primary focus is to deliver a successful execution and implementation plan to each client – on time and on budget – with minimal variance from the company’s as-bid position. It is this execution philosophy that enables CRC-Evans to build solid working relationships with its clients, leading to long-term, ongoing business. The company is committed to providing services that enhance the capabilities of its clients and continuously seek to stay out ahead with progressive technologies targeting industry-wide challenges.

With growing pressure on IOCs and NOCs to reduce the volume of gas flaring, CRC-Evans Offshore used its significant experience of welding 316 & 625 CRA and developed the Internal Welder designed for CRA pipeline welding. This technology will transform the way CRA pipeline welding is executed and also the way in which sour/severe sour service pipelines are designed. Ultimately, this technology will be incorporated into CRA Welding specifications and will significantly reduce the overall cost of installing a sour/severe sour service pipeline.