Roxar—Enabling Subsea Wells to Perform to full Potential

With demand outstripping supply, new discoveries lagging behind production rates, and ever more complex reservoirs, operators are under increased pressure to run their fields at peak potential. To achieve this operators need accurate information on subsea operations – from flow rates and sand production to temperature and pressure information.

Roxar, a technology solutions provider to the upstream oil and gas industry and part of Emerson Process Management, has more than 15 years experience in subsea measurement solutions. These include multiphase and wet gas meters, sand and corrosion monitors, and pressure and temperature sensors.

Two challenges for flow assurance today are water production and sand erosion.

Unchecked water can lead to scaling in the production system and water breakthrough can cause a significant reduction in well production. Sand can also clog production equipment, erode completion components and impede wellbore access.

Roxar is addressing these challenges head-on. The Roxar subsea Wetgas meter is a compact meter for the inline measurement of wet gas flow, providing real-time, accurate measurements of hydrocarbon flow rates and water production. And Roxar's acoustic-based subsea sand erosion sensors detect sand production at an early stage and minimise damage to chokes and valves.

Today, the Gulf of Mexico's Independence Hub development, which produces about 13% of the Gulf's natural gas, incorporates a Roxar subsea Wetgas meter and Roxar subsea Sand monitor.

In the words of Nikhil Joshi who manages the Roxar meters for Anadarko, the lead operator:

"Producing high gas fraction wells at these water depths requires the very best in flow assurance monitoring of individual fields and wells. The improvements in these technologies are ensuring that deepwater operations can operate at the very peak of their production limits."

Roxar subsea Wetgas meter

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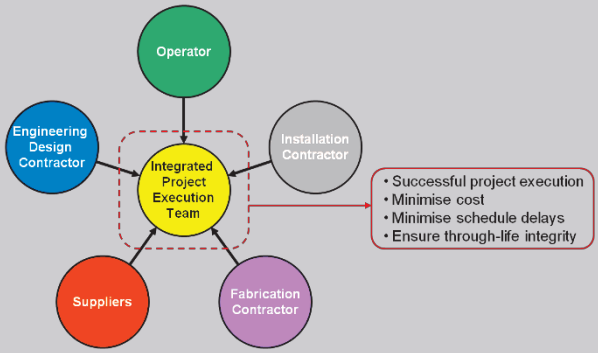
This manages the impact of changes on fabrication, load-out and installation schedules and costs.

In addition to the immediate benefit for the execution team, design engineers gain valuable experience during the execute phase of the project. Vital skills and lessons learned in this process are key to the development of JP Kenny and its engineering capabilities ensuring successful engineering and execution of future offshore pipeline projects.



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