



## Enclosure for Offshore Drilling



### Situation

A manufacturer and supplier of subsea production systems works in partnership with its customers to develop technologies that realize the full potential of its customers' offshore oilfields. For one such project with a major oil supplier, the company required a large, explosion-proof enclosure to house electronic and pressure controls for the subsea system being deployed on an offshore rig. It had used various enclosure manufacturers before, but the technical and safety specifications set by this client required a more robust solution. The project team – which consisted of representatives from engineering, project management, quality, and supply chain – evaluated several vendors before choosing FoxGuard Solutions for its technical and engineering knowledge and capabilities.

### Solution

Foxguard designed and built a stainless steel enclosure (based on its Envirosealed® line) approximately four feet deep, four feet wide, and six feet tall to house specialized communication devices. The unit has over 25 cable glands with redundant power and data lines to connect the subsea control modules. A purge controller keeps flammable gases out of the unit, making it safe for Class I Division II hazardous environments, while an air conditioner regulates the internal temperature. Operators interface with the system through a front mounted keyboard and sunlight viewable display to control and monitor subsea and topside equipment.

Working with the engineering and design teams at Foxguard allowed the company to actively participate in the project from start to finish. The Supply Chain Leader for engineered OEM ventures was impressed with the overall development process. "Foxguard followed the process put in place which, in turn, helped us to meet our customer's needs and deadline."



The enclosure selected was a 6' H x 4' W x 4' D stainless steel enclosure with integrated electronics and a purge controller.



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### Engineering Expertise

The product FoxGuard provided met all the technical specifications set forth by the end user. By satisfying these requirements within the timeframe allotted, FoxGuard's client will continue to serve this customer and will find new opportunities within the industry.

By utilizing FoxGuard's engineering expertise, the company was able to deliver a more effective solution to its customer. "Working with FoxGuard improved our schedule and may become a new 'best practice' when facing these engineering challenges."

Because of the many hazards and natural elements present on an offshore rig, the company needed a provider that would be able to deliver a high-quality product and the necessary support. "We give the Foxguard team glowing marks for their communication, customer service, delivery, and technical support. From proposal to delivery, they were outstanding."

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