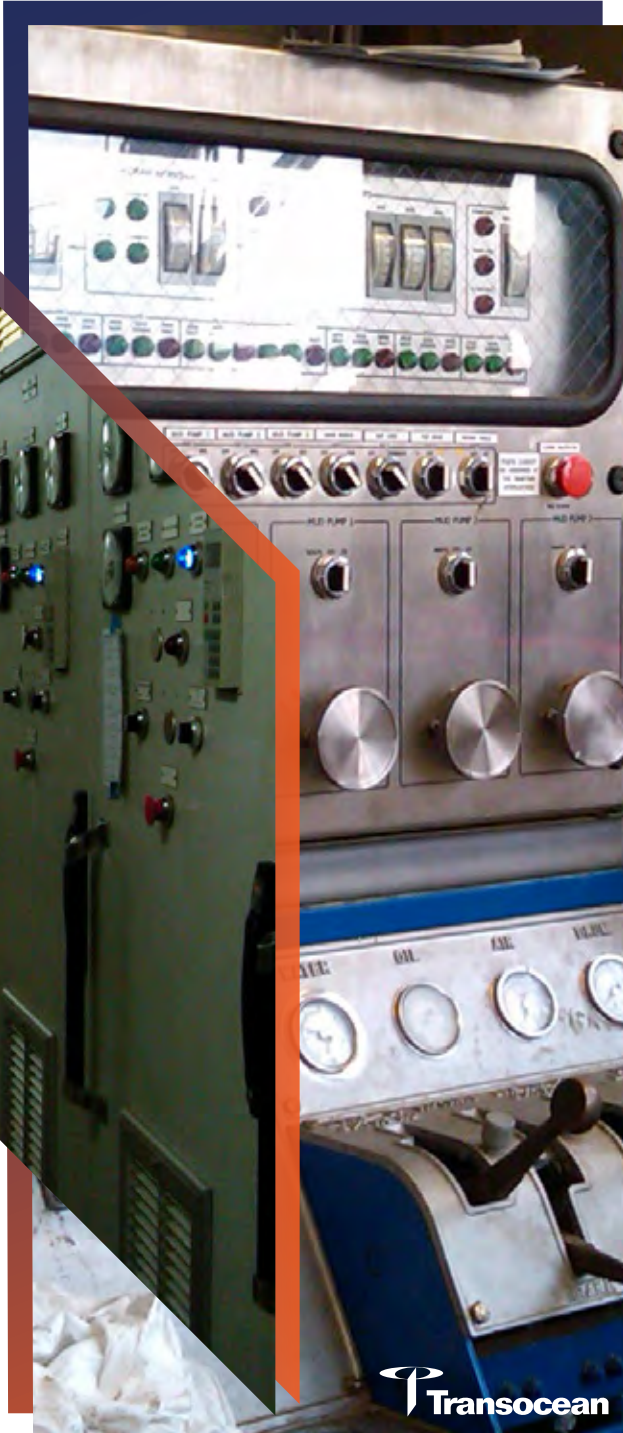


## REVAMPING DRIVE SYSTEMS FOR OFFSHORE RIG EFFICIENCY

### Transocean High Island 9: Innovating Offshore Drilling Operations



#### CLIENT OVERVIEW

- **Client:** Transocean
- **Industry:** Oil & Gas
- **Focus:** Offshore drilling rigs and drillships

#### CHALLENGE

Transocean needed to replace an outdated drilling drive system that posed significant reliability risks. The project required smart, customizable drive solutions tailored to operate under unique control philosophies and challenging environmental conditions.

#### NSA'S SOLUTION

**Advanced Drive Programming:** NSA implemented sophisticated programming of drive internal custom logic blocks to handle complex drilling functions such as drawworks, mud pumps, and top drives.

**Custom Documentation and Training:** Adapted to the unique documentation requirements of Transocean, providing schematic arrangements and customized AutoCAD reports to facilitate onsite assembly and maintenance.

**Innovative Environmental Adaptations:** Addressed the non-ideal environmental conditions by providing robust hardware tailored to withstand harsh operational settings.



## ADVANCED DRIVE SYSTEM RETROFIT FOR OFFSHORE RIG Transocean Nautilus: Enhancing Offshore Drilling Capabilities

### RESULTS AND IMPACT

**Enhanced System Reliability:** The revamped drive systems significantly increased reliability and operational efficiency, ensuring long-term support and maintenance.

**Operational Adaptability:** The drives were configured to be selectable between different drilling functions, enhancing flexibility in operations.

**Reduced Downtime:** Smart spreadsheets and HMI programs developed by NSA provided clear, real-time performance visualizations, reducing downtime through improved troubleshooting.

### CLIENT TESTIMONIAL

"NSA's custom solutions have dramatically improved the performance and reliability of our High Island 9 rig, ensuring our operations can continue efficiently in challenging conditions."

- *Operations Manager, Transocean*

### CONCLUSION

- NSA's tailored solutions for Transocean's High Island 9 rig exemplify their expertise in delivering high-performance, reliable systems designed to meet the unique demands of offshore drilling operations.

