CYIENT | Nothing Less



Trusted Brownfield Engineering for World's Largest Offshore Drilling Company

Business challenge

Customer operates drillships and semi-submersible across some of the world's most demanding offshore environments. Keeping these assets operational is a continuous engineering effort, shaped by the realities of aging equipment and the evolving technical requirements of international oil exploration companies. The challenges are finding drillship domain engineers coupled with cost-effective solutions.

- **Incomplete asset records:**
  Many assets are brownfield, with limited or missing original drawings, requiring engineers to reconstruct design context from photographs.
- **Multi-discipline complexity:**
  Retrofitting and maintaining aging offshore systems demands high accuracy across process, structural, mechanical, and electrical disciplines simultaneously, with no tolerance for error.
- **Evolving demand patterns:**
  Tasks are frequently time-sensitive and may arise with evolving demands, requiring responsive engineering support that can at times extend beyond regular working hours,
- **Non-negotiable compliance:**
  Safety standards and operational continuity must be maintained throughout every engagement, adding further layers of scrutiny to an already complex scope.
- **Cost and risk pressure:**
  Customer needed a partner with technical depth and flexibility to handle all of this without inflating cost or introducing delivery risk.

Overview

For over two decades, we have been a trusted engineering partner to customer, supporting its Houston-based operations with high-precision brownfield engineering services across repair, maintenance, retrofitting, mechanical piping, structural, and outfitting disciplines.

Offshore drilling environments leave no room for delays or errors. We deliver detailed engineering, design, and analysis at the speed and scale customer's operations demand, with technical depth and flexibility to respond to complex challenges as they arise.

The partnership endures because it is built on something straightforward:

reliable engineering, every time.

The Cyient solution

We have enabled customer through a deep, embedded engineering partnership that spans the full range of brownfield offshore work. Across two decades, the team has built the capability, processes, and institutional knowledge to respond to customer's needs with precision and speed.

Full-scope brownfield engineering

Deliver end-to-end services across repair, maintenance, retrofitting, mechanical piping, structural, and outfitting disciplines for complex offshore drilling assets.

Rare technical breadth

Combine traditional 2D drafting in AutoCAD with advanced structural and engineering analysis using STAAD Pro, Ansys and Mathcad, a capability mix that most competitors in this space cannot replicate.

Accelerated turnaround

Apply automation tools and process accelerators to significantly reduce engineering delivery times without compromising the quality or accuracy of output.

Flexible, responsive engagement

Operate as an embedded extension of customer's team, structured to respond to urgent, small-scale tasks as readily as larger scopes, including outside standard working hours.

Dedicated account depth

Maintain a team of 25 engineers including a nine-member Centre of Excellence, ensuring both broad capacity and focused specialization on the account.

Continuity through retention

Build and preserve institutional knowledge over time through low attrition, giving customer consistent access to engineers who genuinely understand their assets.

The results

Our long-term engagement with customer has delivered measurable impact across cost, quality, speed, and continuity.

01
Achieved approximately 60% cost savings through our global delivery model.

02
Accelerated turnaround on time-critical offshore engineering tasks, reducing the risk of operational delays.

03
Delivered consistently high-quality, detail-rich engineering outputs that meet or exceed the standards of local and global competitors.

04
Improved throughput and delivery efficiency through automation and process optimization.

05
Maintained long-term continuity through low attrition and deep domain retention across a 20-year partnership.

Engineering Excellence. Nothing Less.

Brownfield offshore engineering still runs largely on 2D for cost-effectiveness, while most engineering providers have moved entirely to 3D modeling and can no longer support it. Cyient works in both: delivering traditional 2D drafting in AutoCAD alongside advanced structural and engineering analysis using STAAD Pro, Ansys and Mathcad. It is a combination that is rare in the market, and exactly what complex aging assets like customer's require.

Looking to reduce the cost and complexity of brownfield engineering?
Talk to our experts.

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.

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