ENGINEERED SOLUTIONS

CASE STUDY

Enhancing Safety and Reliability in Offshore Gas Compressor Systems



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INTRODUCTION, CHALLENGES & OBJECTIVE

An offshore platform in the Gulf of Mexico faced a critical issue with their gas compression system. Routine maintenance revealed potential dangers, prompting a comprehensive analysis by one of our expert technicians.

CHALLENGES



Compressor, Dryer, and Nitrogen Generator Showing Signs of Inefficiency

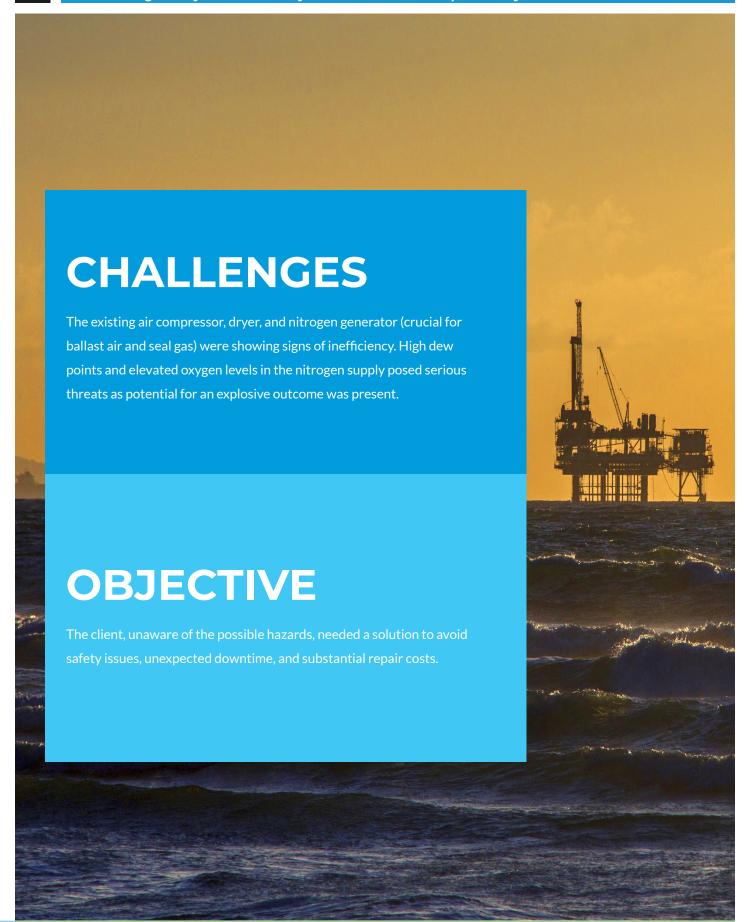


Threat for Explosive
Outcome was
Present

OBJECTIVE



Client Needed to Avoid Safety Issues, Downtime, and Substantial Repair Costs





SOLUTIONS



New Nitrogen Membranes Ordered 2

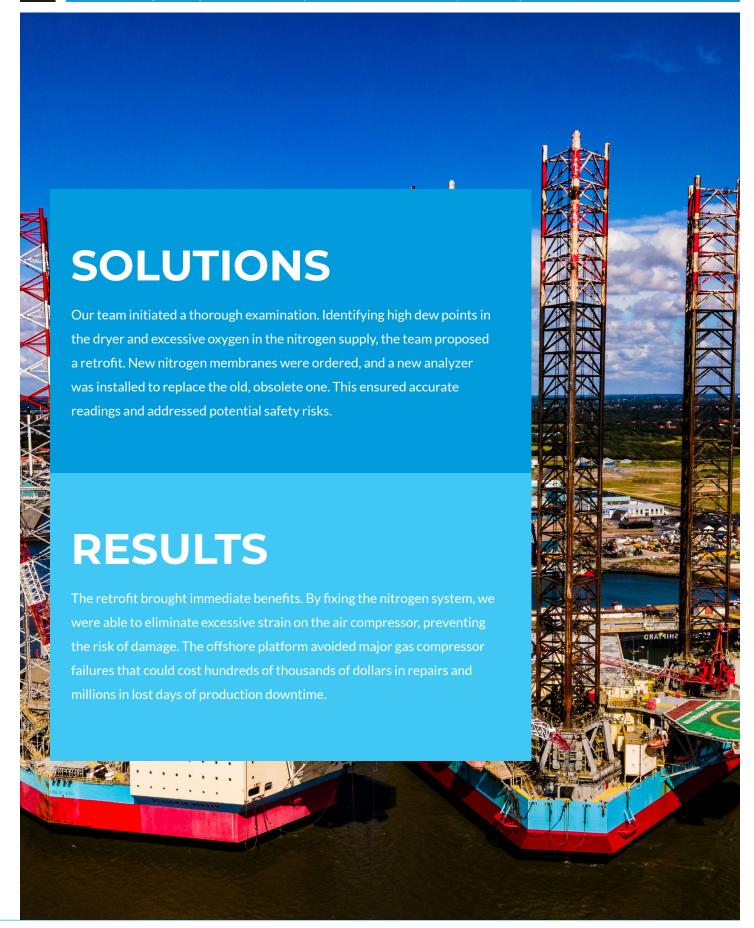
New Analyzer Installed

RESULTS



Eliminated Excessive Strain on Compressor 2

Client Avoided Costly Repairs and Downtime





FINANCIAL IMPACT



Saved Potentially Millions in Lost Production 2

Safety Integrity Level Rated SIL 4 CONCLUSION



Ensured Platform Safety and Reliability



Personnel and Production Safeguarded



FINANCIAL IMPACT

The potential cost savings were substantial. In the worst-case scenario, a gas compressor failure could have led to a multi-million-dollar loss in production. The safety integrity level (SIL) for this application was evaluated at SIL 4, emphasizing the criticality of the solution provided.

CONCLUSION

Our proactive approach not only prevented significant financial losses but also ensured the safety and reliability of the offshore platform. By leveraging our expertise, the platform now operates with optimized gas compressor systems, safeguarding both personnel and production. This case illustrates the value of a comprehensive system analysis in maintaining the integrity of critical processes in offshore environments.



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