

# CASE STUDY

## VERTECH GROUP

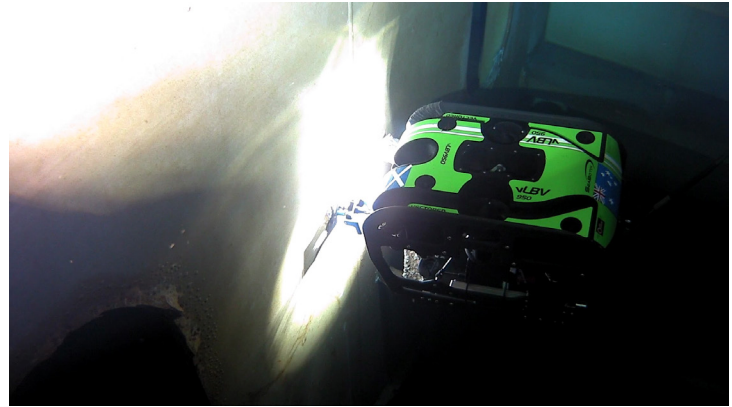
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# ROV BALLAST TANK INSPECTION

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## 1 / Introduction

Veritech embarked on a pioneering endeavour to perform unmanned ROV ballast tank inspections for an offshore FPSO. Traditionally, such tasks would require extensive human intervention, ballasting, and several months of meticulous work. With

Veritech's innovative approach, the entire operation across all 14 ballast tanks was executed within a swift 3-week timeframe. This initiative met and satisfied the requirements of the class society and the client.

## 2 / Innovation

Veritech's affiliated company, Geo Oceans, specialises in ROV and mini-inspection services. They have been at the forefront of developing cutting-edge asset-deployed ROV technology. This technology offers a refreshing alternative to traditional manned inspections, diving, and work-class ROV inspection services, emphasising reliability, safety, and cost-effectiveness. Among their noteworthy achievements, Geo Oceans have successfully employed their advanced technology to meet the standards of leading marine class bodies like Lloyds Register (LR), Bureau Veritas (BV), American Bureau Shipping (ABS), and Det Norske Veritas (DNV).

Utilising these advanced ROV inspection

technologies alongside CVI methods, the team efficiently conducted tank inspections that met specific Class requirements. Their methodologies included providing detailed sketches for thickness measurement locations, recording all ultrasonic thickness measurement (UTM) readings in alignment with Classification Society requirements, and automating calculations for UTM readings wastage allowances.

Geo Oceans' proficiency is further accentuated by its comprehensive data and document management tools suite. This suite has proven invaluable, supporting every stage of the project management lifecycle and showcasing their prowess in Ballast and Cot tank inspections.

## 3 / Project Summary

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The benefits derived from Vertech's asset-deployed ROV inspection system are manifold. This groundbreaking approach eliminates the need for support vessels, ensuring swift and cost-effective global mobilisation. The system offers an array of both conventional and advanced subsea NDT, including unique cleaning capabilities for components like hulls, chains, risers, and water ballast tanks. Notably, the method eradicates the

need for divers, dive support vessels, and manned entries into confined spaces, dramatically enhancing safety—additionally, the methodology champions environmental responsibility by significantly cutting down carbon emissions. Lastly, the system boasts improved data quality with HD video recordings and other data seamlessly captured in the Digital Edge System, promising a future of streamlined, efficient, and safer marine inspections.



Support Corrosion



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