CASE STUDY

INSPECTION BACKLOG REDUCTION

AT A GLANCE

Problem: GDi client faced a 3-year backlog of inspection work scopes resulting in increased platform risk. Platform constraints meant up-manning a large inspection team was not a credible option.

Challenge: The need for a comprehensive, precise, and cost-effective inspection solution.

Solution: GDi's Vision system combined HD photography and Point Cloud Data to rapidly capture extensive, highly accurate data, allowing full remote desktop inspection to be completed. Interactive 3D model reports with assessments and recommendations were generated for each system.

Outcomes: GDi addressed the 3-year backlog within 5 weeks, enhancing asset integrity and efficiency while reducing platform risk and costs.

CHALLENGE

A significant backlog of inspections spanning three years posed a critical challenge for the client. The risk of corrosion, anomalies, and overall reduced asset integrity prompted the need for comprehensive inspection campaigns. Traditional methods were time-consuming, expensive, and lacked the precision necessary for the necessary outputs.
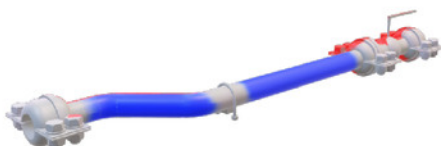
SOLUTION

GDi introduced its cutting-edge Vision system to tackle the challenge. This innovative approach combined HD photography and Point Cloud Data, enabling the rapid collection of an extensive dataset. Thousands of scan locations, terabytes of data, and billions of data points, along with high-quality images, were swiftly captured, resulting in the creation of interactive 3D model reports which included detailed inspection assessments and recommendations.

GDi conducted a comprehensive and precise inspection of the entire asset, significantly reducing inspection costs and manpower requirements. It also established a basis for comparing inspection results over time, improving asset management. **All inspection scopes were complete without sending any resources offshore.**

Laser Scanning & Data management — Vision — Desktop Visual Inspection — Condition Assesment

OUTCOME

The three-year backlog of inspections was efficiently addressed and resolved within just 5 weeks, ensuring the asset's integrity and safety. GDi's system offered rapid, sub-millimetre accurate, and fully auditable data, enhancing the client's ability to manage the asset efficiently.

This innovative solution not only resulted in significant cost savings but also facilitated a more focused approach to remaining onsite inspections. The collected data supported routine visual inspections and intrusive inspection tasks, enhancing overall asset management practices. GDi's Vision system showcased the benefits of using cutting-edge technology for inspections, improving accuracy, reducing costs, and ensuring asset integrity in a demanding industry.

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VIS Tags
Absence of Data
Inspected
Insulated