

CASE STUDY

CORROSION UNDER INSULATION INSPECTION

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VERTECH

INTRODUCTION

Vertech has supported the FPSO Raroa for the past five years, initially providing general NDT services to meet regulatory compliance. As both the facility and Vertech evolved, the scope expanded to include a broader range of inspection services. Leveraging extensive industry experience in pressure systems and ship structures, Vertech has continued to deliver cost-effective solutions to the challenges of maintaining an ageing offshore asset.

PROCESS

When the client identified corrosion under insulation (CUI) during routine topside inspections, Vertech was engaged to find a more economical detection method than full insulation removal. A gap analysis was conducted on current CUI detection techniques, and the Eddyfi Lyft pulsed eddy current (PEC) system was selected. Vertech's specialist team completed the initial PEC survey offshore, targeting key piping systems in collaboration with the client's asset integrity team. Following the success of the initial survey, two further campaigns were executed, expanding the scope to include pressure vessels.

OUTCOME

The PEC surveys successfully identified areas affected by CUI, leading to targeted insulation removal and follow-up inspections. This proactive approach allowed the client to optimise inspection and maintenance strategies. As a result, a systematic insulation upgrade programme was initiated to further mitigate CUI risk and improve long-term asset integrity. Vertech's innovative approach not only enhanced inspection efficiency but also reinforced its value as a trusted offshore partner.

