

CASE STUDY

KGP LNG BERTH 1 AND 3 INSPECTION CAMPAIGNS

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VERTECH

INTRODUCTION

Vertech was engaged to undertake a comprehensive structural inspection of an LNG loading jetty, with the objective of gathering critical data to support a future life extension programme. Over six months, Vertech worked closely with the client to complete this complex campaign, which included general and close visual inspections alongside advanced Non-Destructive Testing (NDT), all while managing access in a challenging marine environment.

PROCESS

The project began with general and close visual inspections, followed advanced NDT using Phased Array (wheel probe), Pulsed Eddy Current (LYFT), and TOFD corrosion mapping. Based on the findings, Vertech contributed to a six-month marine lifting and maintenance programme, split into 'Early Works' and 'Main Works' phases to minimise disruption to ongoing operations.

Vertech implemented alternative access solutions including web decking, engineered decking, and encapsulation systems, supported by IRATA rope access teams. These innovations allowed uninterrupted vessel access and significantly reduced project costs. Tasks included anchor installation, fender updates, 3D laser scanning, and rigging support for mechanical works and loading arm replacement via jack-up barge. Rope access also enabled confined space entry into risers for inspection and remediation work.

OUTCOME

Vertech's involvement ensured the safe, timely, and cost-effective delivery of a technically demanding project. Their innovative access solutions and skilled rope access personnel enabled complex inspections, heavy lifting, and remediation in tidal zones without compromising daily port operations. From installing new emergency ladders and fenders to replacing ageing rope rails, the project delivered critical infrastructure upgrades that extended the operational life of the LNG loading berths while setting a new standard for similar future campaigns.

