

# CASE STUDY

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# GWA FLARE STRUCTURE REMEDICATION

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## 1 / Introduction

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The Goodwyn Alpha Life Extension (GLE) project is an ambitious endeavour to prolong the Goodwyn platform's operational lifespan, including its wells, risers, and subsea infrastructure. The primary objective is to extend its design life by an additional 12-18 years from 2025, facilitating the extraction of existing reservoirs and the anticipated Greater

Western Flank development. A pivotal component of this extension is the Goodwyn Alpha Flare Tip, a safety-critical element ensuring the secure disposal of gas and liquid hydrocarbons. As the flare tip had not been replaced since 1998, despite a 10-year design life, its replacement in 2018 was a crucial aspect of the GLE project.

## 2 / Innovation

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The challenge was replacing a flare tip located 160m above sea level. This feat was achieved through a specially designed flare tip handling package and rope access rigging and lifting services. Having previously demonstrated their adeptness in handling complex projects,

A myriad of critical services was deployed to guarantee the project's success. These encompassed constructability development, meticulous project planning, collaboration in risk engineering, crafting safe work methodologies, developing rescue scenarios and tests, planning

for rigging, assessing NDT competency, demonstrating prowess in mechanical fitting & flange management, and showcasing EEHA electrical inspection skills.

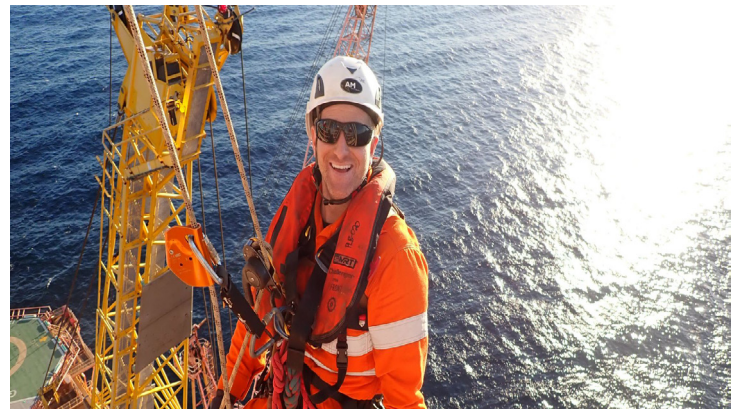
Unique to the GLE project was the stipulation that only Vertech's rope access personnel would be allowed access to the tower. These personnel had to be proficient in operating the 14t bespoke electric and hydraulic system, including fault-finding, ensuring the project's uninterrupted progress during a system shutdown.

# 3 / Project Summary

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Navigating the potential challenges of radiant heat exposure during pre-shutdown access to the flare tower's lower levels required innovative solutions. Vertech was instrumental in offering equipment and a safe access strategy, complete with an emergency escape plan tailored for unforeseen circumstances. This proactive approach ensured safety and streamlined the subsequent shutdown scope,

underscoring Vertech's commitment to efficiency and safety in even the most challenging conditions.



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