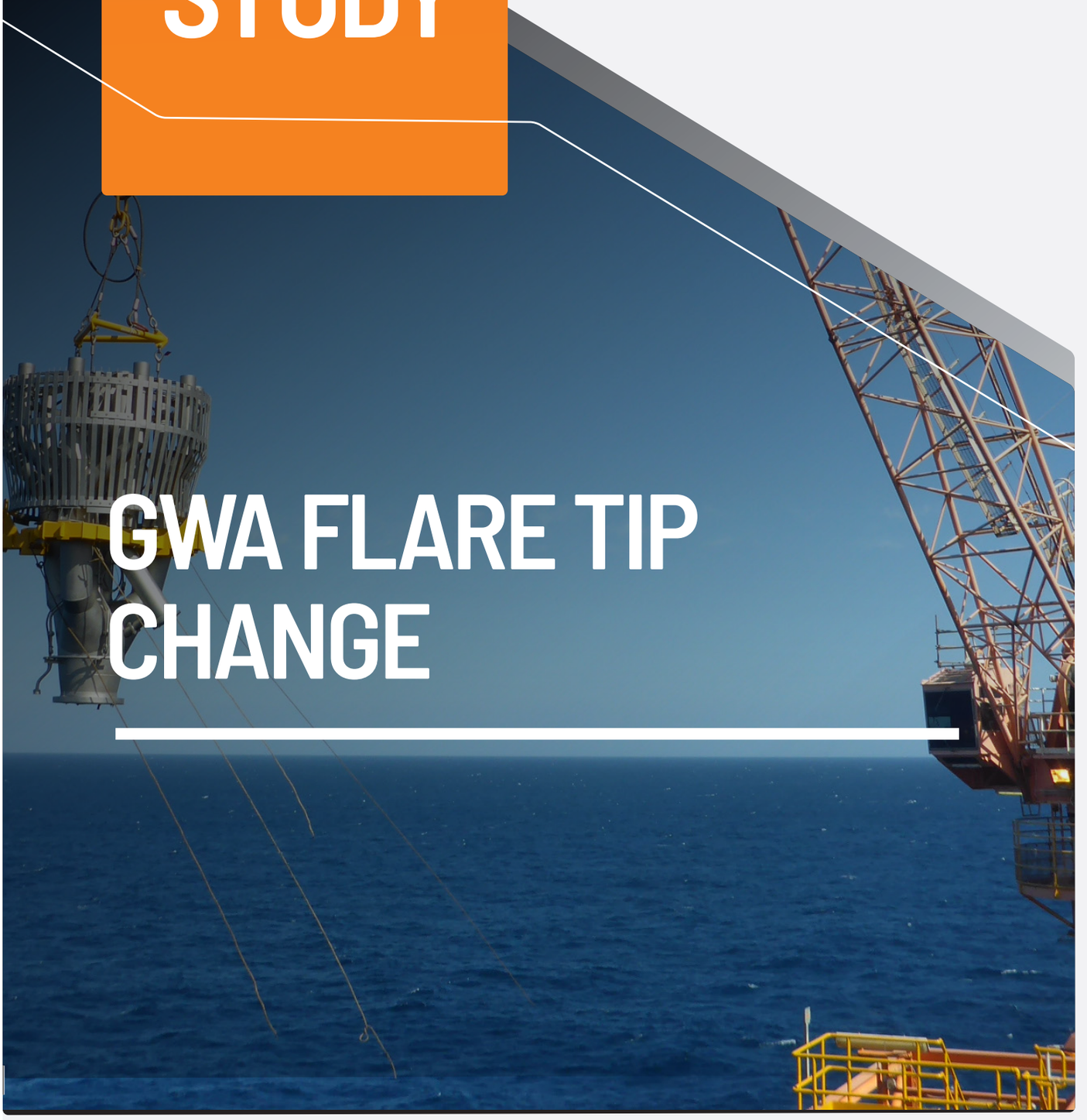
CASE STUDY

VERTECH GROUP
19 Walters Drive, Osborne Park
6017, WA, Australia
P: +61 8 6168 7600
E: Info@vertechgroup.com.au



GWA FLARE TIP CHANGE

1 / Introduction

The Goodwyn Alpha Life Extension project aimed to extend the life of the Goodwyn platform and its infrastructure by 12-18 years from 2025. The project involved replacing the Goodwyn Alpha Flare Tip, which is a crucial safety component for disposing of gas and liquid hydrocarbons. The replacement was necessary for the success of the project.

2 / Innovation

To tackle this task, Vertech combined its expertise in IRATA rope access, rigging, mechanical, and coatings to replace the flare tip positioned 160 meters above sea level on a vertically designed flare tower. They employed a bespoke flare tip handling package to facilitate removal and replacement.

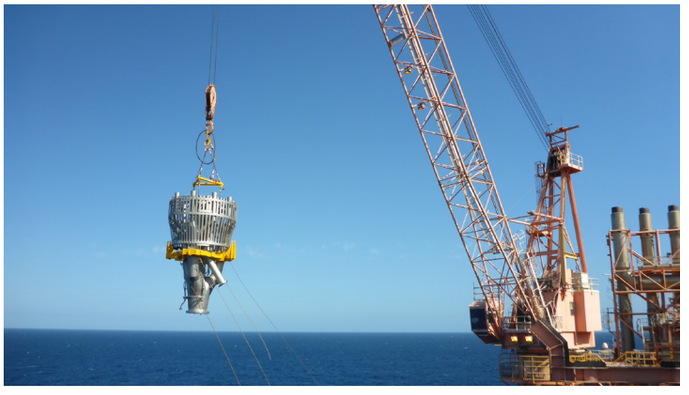
Additionally, Vertech was entrusted with ensuring the Flare Tip's safe replacement and conducting remediation work on the Flare Tower, especially within a demanding shutdown window. This task involved various services, including constructability development, project planning, risk engineering collaboration, safe work methodology, rescue scenario testing, rigging plans, NDT competency assessment, mechanical fitting, EEHA electrical inspection, and comprehensive procurement and logistics. One distinct challenge was the potential radiant heat exposure risk during the pre-shutdown access to the flare tower's lower levels. Anticipating this, Vertech arranged equipment, safe access means, and an emergency escape plan specifically tailored for such contingencies. This foresight ensured the efficient deployment of equipment and tooling at the flare tower's lower levels and offered a smooth transition to the subsequent shutdown work

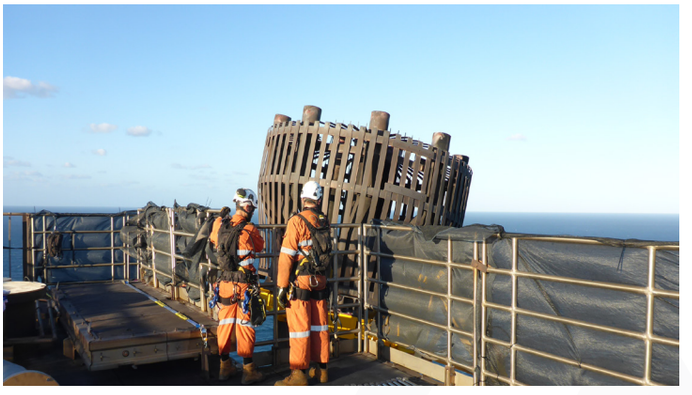
During this phase, Vertech's multi-disciplinary rope access team also provided a suite of services, including removing and replacing Nav Aids, critical structural member repairs, NDT and visual inspections, coatings procedure development, and adhesion testing.

3 / Project Summary

Upon arrival, the team promptly commissioned the Flare Tip Handling Package, function-tested the equipment, and initiated a 'make safe' campaign to eliminate potential dropped objects. The Flare Tip Handling Package was then employed at the flare's pinnacle, where the team used heavy rigging and lifting equipment to replace the flare tip, ensuring all tensioning and torquing requirements were met.

The entirety of the project posed numerous challenges, both in its engineering and execution. Yet, thanks to exemplary leadership onshore and offshore, the project was successful, timely, and under budget.





CONTACTS

Vertech Group
T: +61 (8) 6168 7600
E: Info@vertechgroup.com.au

Sonomatic AUS
T: +61 (8) 6240 2450
E: Sales@sonomatic.com.au

Geo Oceans
T: +61 (8) 6168 7611
E: Info@geooceans.com.au

AUAV
T: 1300 738 521
E: Contact@auav.com.au

Blue Ocean Marine Services
T: +61 (8) 6263 8785
E: Info@blue-ocean.com.au

APS
T: +61 (3) 9466 1887
E: Info@apsystems.net.au

Abseil Access
T: +64 (4) 801 5336
E: Info@abseilaccess.co.nz