# CASE STUDY

#### **VERTECH GROUP**

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# ANGENFIARE TIP REPLACEMENT





## 1/Introduction

In January 2016 an inspection via drone of the Vertech was engaged by Wood Group, EPC to Angel flare tip platform, revealed serious defects of the flare tip which could compromise production. flare boom via Rope Access, to install a trolley, "A" A project was initiated to replace the flare tip as frame and Gantry rail system capable of lifting the soon as possible. The implementation for the flare 5 tonne flare tip to be replaced 110 meters above tip change was awarded to Vertech Group.

establish a methodology to establish access to the sea level.

## 2 / Innovation

Multiple new methodologies and technologies were 🤡 Minimal equipment and manning footprint custom designed to complete this project 🔮 Multi-skilled team. including:

- **Ouick install rollers to secure the trolley to flare** boom guide rails to minimise pinch point risks,
- combination to haul material and tooling to the flare tip for site establishment,
- **O** Custom designed temporary access platform and securing mechanism to revert from suspended load to working platform as required.

# **3 / Project Summary**

awkward orientation was required to be restrained during its removal lift to mitigate the unknown centre of gravity and to control the load at all times. The riggers released lever hoists from tie down points as tonne chain hoist. Once stabilised on the transport cone, the entire trolley was disengaged from the flare tip platform and lowered to the flare boom base. Here the old tip was removed and the new tip the top for the installation of the new flare tip. Once complete the trolley was lowered and disassembled to be back loaded to the beach. These works were delivered with a team of 9 over 3 weeks, consisting of the following skilled technicians:

The challenge of establishing safe access to a facility flare boom to install a 14.5 tonne mobile platform, reeving the winch wire for the 40t winch to haul the platform and flare tips was one that Vertech did not take lightly. Working closely with the client the tip was lifted using a pneumatically operated 7 for an emergent, production critical scope, Vertech established comprehensive methodologies to ensure that the project could be undertaken safely. Vertech crews established initial access using rope loaded. The trolley was system was again hauled to access systems, to install the trolley to the flare boom. Additional preparatory works were required for the travel path of the 40t winch wire, which were all conducted using rope access. The 40t winch wire was reeved through a sheave cluster at the top of the flare boom using a 2 tonne daughter winch. The winches were installed during initial site set 🔮 IRATA Level 3 Supervisor/Advanced Rigger up before the facility shut down. Once the winch 🤡 3 x Level 3/Mechanical Fitter/Advanced Rigger was function tested the platform has hauled to the 6 4xIRATA Advanced Rigger/Advanced Scaffolders flare boom top some 80 metres. The flare tip in its 🙆 IRATA Electrician Advanced Rigger



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