

CASE STUDY

RIGGING - ANGEL FLARE

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VERTECH

INTRODUCTION

In January 2016 an inspection via drone of the Angel flare tip platform, revealed serious defects of the flare tip which could compromise production. A project was initiated to replace the flare tip as soon as possible. VerTech was engaged by the client to establish a methodology to establish access to the flare boom via Rope Access, to install a trolley, "A" frame and Gantry rail system capable of lifting the 5 tonne flare tip to be replaced 110 meters above sea level.

PROCESS

VerTech developed a comprehensive methodology to safely access the facility's flare boom and install a 14.5 tonne mobile platform. Rope access crews installed the trolley system, prepared the winch wire path, and reeved a 40t winch wire using a 2 tonne daughter winch. The platform was hauled 80m to the flare boom top, where the flare tip was carefully restrained and removed using a 7 tonne pneumatic chain hoist. The old tip was replaced with a new one, and the trolley system was reused and then dismantled post-installation. Key innovations included quick-install trolley rollers, a Tyrolean/capstan winch system, and a custom access platform with a dual securing mechanism.

OUTCOME

The critical scope was delivered safely, on time, and during shutdown readiness with a nine-person multi-skilled team. VerTech's innovative, low-footprint approach enabled controlled lifting operations in a challenging offshore environment, minimising risk while ensuring production continuity.

