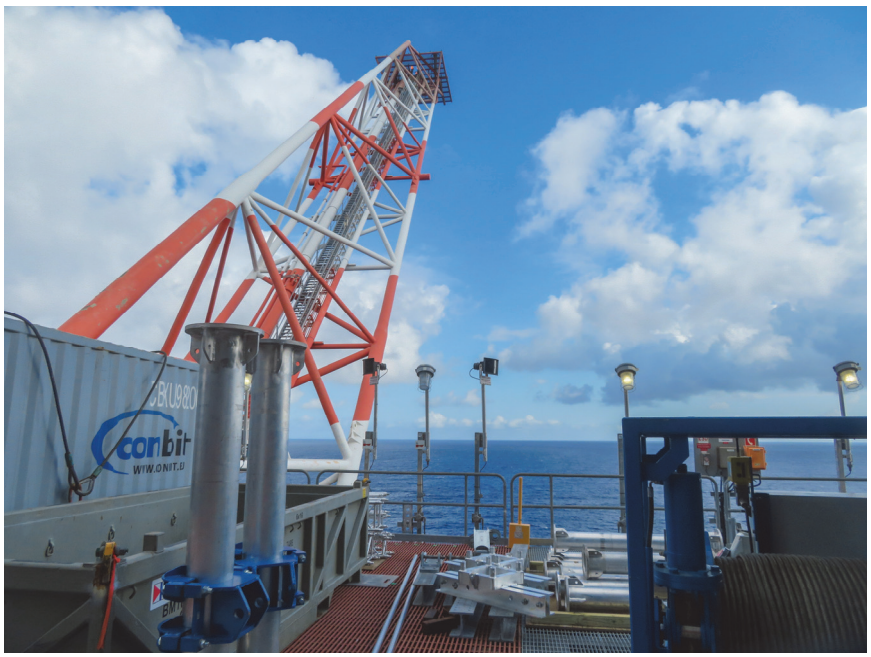
APPOMATTOX FLARE TIP REPLACEMENT USA

Conbit was contracted by WorleyParsons, on behalf of Shell, to deliver engineering, project preparation, and offshore execution for the flare tip replacement at the Appomattox platform. The Appomattox platform is located in the Gulf of Mexico, approximately 80 miles southeast of the Louisiana coastline. In addition to the flare tip replacement, Conbit supported associated maintenance activities, including piping works to reroute the low-pressure (LP) flare line to a new location.



Overview of the platform work area

PROJECT

- ✓ ENGINEERING
- ✓ PROCUREMENT
- ✓ CONSTRUCTION

Client
Shell

Project Number
31349

Project Name
Appomattox Flare Tip Replacement

Worley
energy | chemicals | resources

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APPOMATTOX FLARE TIP REPLACEMENT USA

01SD160-A

Removal of the old flare tip

Lifting the new flare tip up to the flare tower

Installation of the new flare tip

ENGINEERING & SOLUTION

All engineering and preparatory activities were executed at the Conbit office prior to offshore mobilization. Due to the inclined configuration of the Appomattox boom, two lifting approaches were evaluated: lowering loads to and from a supply vessel or transferring loads from and towards the platform using a tugger line. For this project, the tugger line solution was selected to ensure safe and controlled load handling.

KEY CHALLENGES

The presence of mercury on the platform posed a significant safety challenge, as mercury reacts with aluminum components used in Conbit's equipment. In close cooperation with the client, a comprehensive HSE strategy was developed. This included enhanced personal protective equipment (PPE) requirements, specific operational procedures, and the establishment of a mercury-free working area on the top platform.

EQUIPMENT

The lifting and handling operations were performed using Conbit's modular gantry system in combination with a main winch and a tugger winch. This integrated setup enabled controlled load transfer between the inclined boom structure and the platform, providing precise positioning and safe handling of the flare tip and associated components. The configuration was specifically selected to accommodate the project's geometric constraints and operational requirements while maintaining high safety and efficiency standards.

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