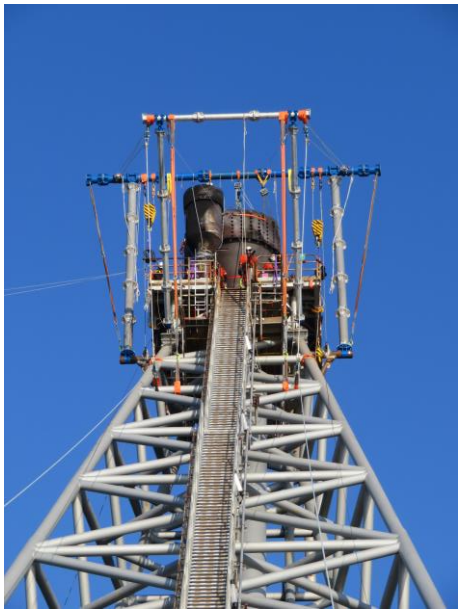
THE POWER OF PREPARATION

EXTENSIVE FLARE WORKS OFFSHORE MALAYSIA

Carigali Hess contracted the flare specialists of Conbit to perform a major overhaul of the flare system at the Central Processing Platform at the Cakerawala field.

The scope comprised the replacement of the complete flare tip access platform, the permeate flare tip, two HP flare tips, two headers of the HP flare tips and a manifold.

The Cakerawala Gas Field is located offshore in the lower part of the Gulf of Thailand approximately 150 km northeast of Kota Bharu.



Picture: Gantry lift structure on top of the flare boom

PROJECT

- ✓ ENGINEERING
- ✗ PROCUREMENT
- ✓ INSTALLATION

Client
Carigali Hess Operating Company

Project Number
30891

Project Name
Cakerawala flare works

CARIGALI HESS

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EXTENSIVE FLARE WORKS OFFSHORE MALAYSIA

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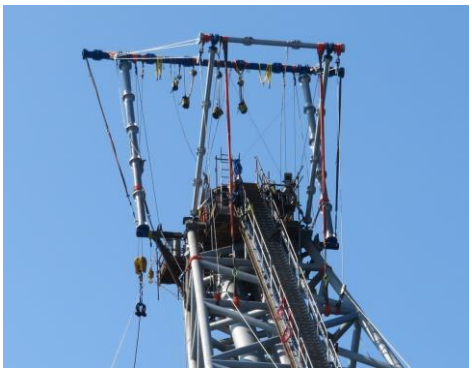
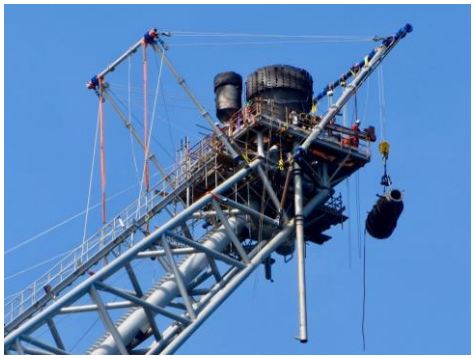
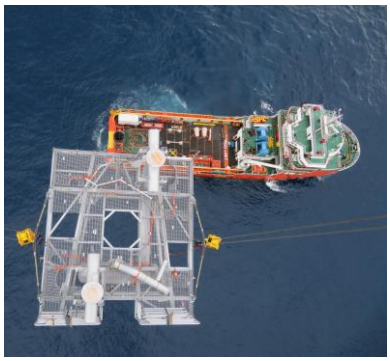


Pictures: position of winches (left) and gantry when installed (right)



Pictures: first, the flare tips were lifted



Pictures: lifting the new platform, 10t, straight from the supply vessel

Picture: load test at Conbit's yard (12.5t)

THE EQUIPMENT

Conbit uses a modular lifting system to perform lifts that regular cranes cannot reach. In this case of flare tip replacements, the lifting system is erected on top of the flare tip access platform. In this case, the flare tip access platform needed to be replaced, and so Conbit's engineers had to find a different solution. A unique base frame was designed to connect to the side of the flare tower.

The lifting system is operated by winches, which remain at deck level. Items that were replaced were lifted directly to and from a supply vessel.

A record of six winches were mobilized: two high speed main lift winches, two luffing winches and two service winches. The winches were powered by generators and powerpacks, ensuring this was a standalone operation.

THE OPERATION

Before mobilization, a full load test was conducted at the Conbit 's head office in Eindhoven, The Netherlands. Conbit's engineers prepared a full engineering package during the preparation to ensure the execution offshore went smoothly. The full scope was completed successfully within a 10-day shutdown period. In that narrow window, an offshore crew of 20-30 colleagues with different skills installed and load tested the lifting system, replaced components with a combined weight exceeding 20t, and demobilized from the platform.

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