

## Flare tip platform grating change out

ASSET  
LOCATION

Fixed production platform  
UK

Mechanical handling  
FEED study to ensure  
the safe and efficient  
replacement of panels on  
a flare tip platform

### BENEFITS

Efficient and cost effective solution to provide confidence in the safety of the flare tip platform

Bespoke solution which utilised existing resources to minimise costs

Full lift plan to mitigate risks



DELIVERY ASSURED

## CHALLENGE

When you need to access areas of significant height and inaccessibility, a comprehensive lift plan maximises efficiency and mitigates risks. To ensure they maintain the highest safety standards our client engaged us to produce and test a safe solution and method of access and replacement for panels on their flare tip platform.

## SOLUTION

- We supplied our client with a comprehensive lift plan for the safe method of access and replacement of the panels they wished to replace.
- A winch which was the primary lifting source was mounted to the base of the flare tower adjacent to the mechanical handling hatch.
- The Front End Engineering Design (FEED) study identified and developed several options for the lifting appliance which included installing either an a-frame or davit steelwork structure.
- The final recommendation was to utilise an existing Sparrows Group slewing davit design, tailored specifically for the application, mounted at the mechanical handling hatch.
- This was accompanied by a specially designed deck trolley which incorporated a bolt on slewing davit for handling and moving the grating panels on the access platform.
- Once the design was accepted, we commenced the fabrication and testing of the equipment.
- Testing took place on a full scale area plan replica constructed from scaffolding materials onshore in order to enable testing of the system under controlled conditions.

## SUMMARY

- FEED study (front end engineering and design)
- Concept solution design proposal
- Detailed design of davit and trolley appliances and associated materials
- Fabrication / materials and coatings
- Equipment build / assembly
- Production of lifting plans
- Provision of rental equipment
- Documentation packaging including: lifting plans / work packs / certification and testing
- Specialist contractor liaison onshore / offshore
- Project management

1.



2.



3.



1.

Aerial view of the flare tip

2.

Onshore trial and assembly

3.

Working on the platform

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