

Offshore - Fixed Steel Structures

PAFA Consulting Engineers have performed a range of studies concerning fixed structures covering subsea, jacket and topside systems.

For steel jacket structures, we can offer services covering all stages of the platforms life from:

- Field development concepts,
- Preliminary and detailed design,
- Transportation,
- Installation,
- Inspection, maintenance and repair,
- Reassessment, to
- Removal and decommissioning.

By developing and assessing a range of codes and standards, PAFA Consulting Engineers have an valuable insight into design specifications around the World. Consequently, we can often recommend to Clients approved alternative methods when required.

PAFA Consulting Engineers have a team of engineers experienced in structural modelling fixed steel structures and assessing the behaviour against design or operational requirements.

Using these techniques, the operational life of platforms have been extended without the need for expensive remedial works and topside equipment loads have been increased without the need for structural strengthening.

Non-linear analysis capabilities have been employed to reassess platforms against the extreme wave, ship and seismic impact loads, with results that generally indicate conservativeness in the original design that can be exploited by the operator.

Fatigue and fracture capabilities also enable us to refine estimates of estimated remaining design life at member connections and the recommendation of increased inspection as opposed to costly repair.

Summary

- Design and reassessment
- Structural modelling
- Field development and decommissioning
- Ultimate & fatigue strength
- Extreme & dynamic loading
- Vessel impact
- Risk assessment

Clients

- BP
- Burlington Resources
- Health & Safety Executive
- LOC
- Mobil Oil
- TSC
- Vanguard

For More Information, Please Contact:

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